



PMR PRIVATE MOBILE RADIO

R & D ENGINEERING PROJECT PROTOTYPE WIMAX
WIRELESS COMMUNICATIONS RAILWAYS TRANSPORT
PMR PRIVATE MOBILE RADIO TACTICAL AIR
TRAFFIC CONTROL R & D ENGINEERING PROJECT
PROTOTYPE WIMAX WIRELESS COMMUNICATIONS
RAILWAYS TRANSPORT PMR PRIVATE MOBILE RADIO
TACTICAL AIR TRAFFIC CONTROL R & D ENGINEERING
PROJECT PROTOTYPE WIMAX WIRELESS COMMUNICATIONS
RAILWAYS TRANSPORT PMR PRIVATE MOBILE RADIO
TACTICAL AIR TRAFFIC CONTROL

POLO ITALIANO ANTENNE
GUGLIELMO MARCONI



TEDAP RADIO FREQUENCY ANTENNAS PROJECTS SRL IS THE EXCLUSIVE WORLDWIDE RESELLER FOR ANTENNA BRANDS



TEDAP NETWORK (RETE D'IMPRESE), with an official joint management is now a market leader in the design, production and supply of products of radio transmission equipment.

POLO ITALIANO ANTENNE GUGLIELMO MARCONI

TEDAP's portofolio serves this main market segments:

- **AIR TRAFFIC CONTROL;**
- **TACTICAL;**
- **PMR PRIVATE MOBILE RADIO;**
- **RAILWAYS / TRANSPORT;**
- **WIMAX / WIRELESS COMMUNICATIONS;**
- **R&D ENGINEERING / PROJECT / PROTOTYPE.**

TEDAP has BRANCHES across Europe: for this reason, we are sure that professional radio operators and system integrators will find the best solution to any of their needs in our wide range of catalogue offers.

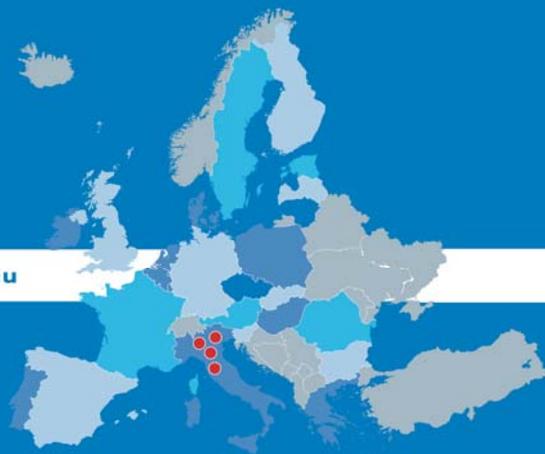
Per i mercati più importanti avremmo una joint commerciale (**TEDAP DOMESTIC**) con i partners locali tecnici / commerciali.

All **TEDAP** products can be made and/or readapted anyway to the needs or the specific requests of our Clients. **TEDAP's** European vision in the communications market enables our clients to appreciate our results in research, thanks to trials and creativity, which underlie our wide production range. All **TEDAP** products are the result of the cooperation between experts from universities and multinational companies. **TEDAP's** production process is fully "made in Europe": it guarantees the top quality of its components, precise manufacturing and attention to detail, in order to meet the need for high quality and durable products.

Every **TEDAP** item undergoes strict quality controls, in full compliance with the requirements of the **ISO 9001:2008 standard**.



www.tedap.eu



MOBILE ANTENNAS

OMNI ANTENNAS

DIRECTIONAL ANTENNAS

PANEL ANTENNAS

ACCESSORIES
(FILTERS - DUPLEXERS)



MOBILE CUTTABLE WHIP VHF ANTENNA

66 ÷ 88 MHz

ML75

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	1/4 λ
Frequency Band (MHz)	66 ÷ 88
Impedance (Ω)	50
VSWR at resonant frequency	≤ 1.5
Bandwidth at resonant frequency (MHz)	4
Polarization	vertical
Gain(dBb)	0
Continuous Max Power (W)	100

Mechanical Specifications

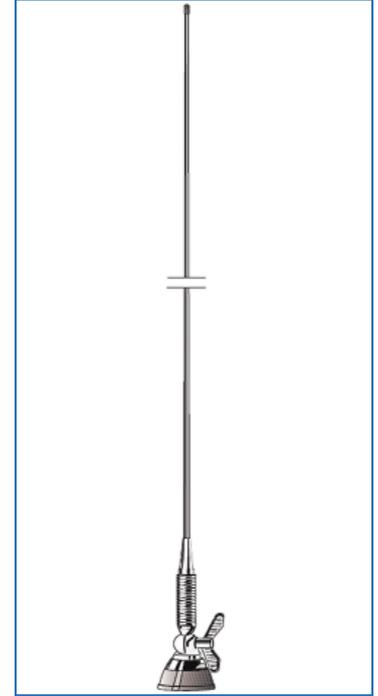
Type of connection (RG058 coaxial connection)	4.5 mt
Length of the whip (mm)	1170
Whip material	Fibreglass
Spring material	Inox steel
Mounting hole (mm)	$\varnothing 19$
Base	Waterproof "L" mount

DESCRIPTION:

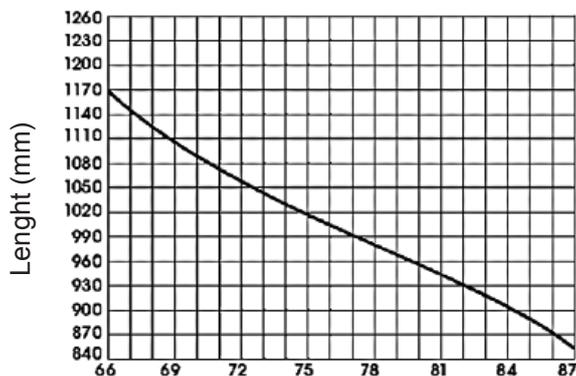
Mobile whip antenna with relative base series.

Conical fiberglass whip with inox steel spring at base.

Tunable by whip cutting (see cutting diagram).

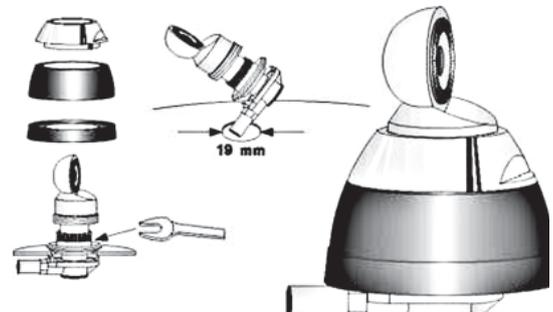


Cutting Diagram



Frequency (MHz)

Mounting Instructions



By



We reserve the right to modify these data without any notice



MOBILE CUTTABLE WHIP VHF ANTENNA

144 ÷ 174 MHz

SL A 4M

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	1/4 λ
Frequency Band (MHz)	144 ÷ 174
Impedance (Ω)	50
VSWR at resonant frequency	≤1.5
Gain (dBd)	0
Bandwidth at resonant frequency (MHz)	7
Polarization	vertical
Continuous Max Power (W)	100

Mechanical Specifications

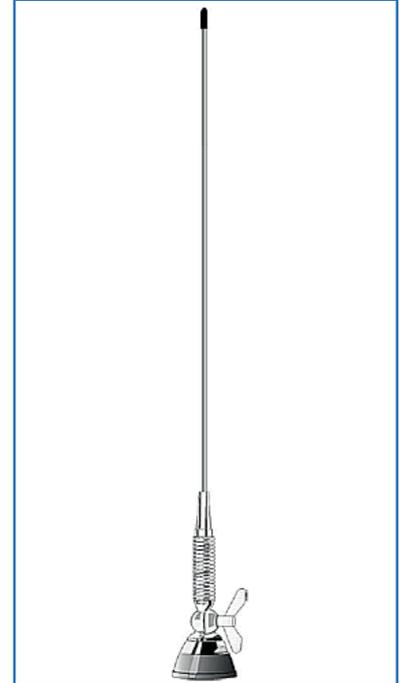
Type of connection (RG058 coaxial connection)	4.5 mt
Length of the whip (mm)	535
Whip material	Inox steel
Spring material	Inox steel
Mounting hole (mm)	Ø 19
Base	Waterproof "L" mount

DESCRIPTION:

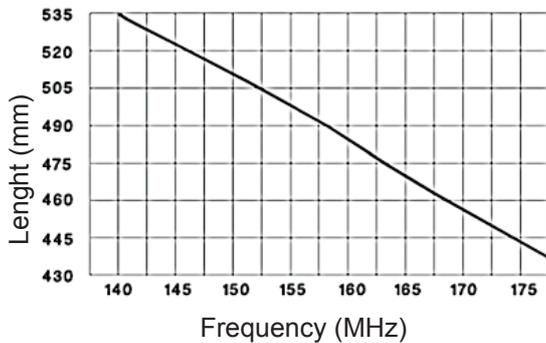
Mobile whip antenna with relative base.

Conical inox steel whip with inox steel spring at base.

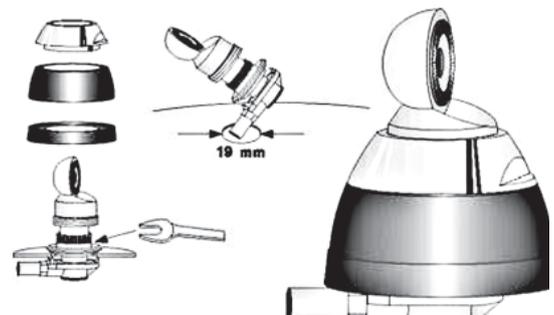
Tunable by whip cutting (see cutting diagram).



Cutting Diagram



Mounting Instructions



By



We reserve the right to modify these data without any notice



VEHICULAR CUTTABLE WHIP VHF ANTENNA

144 ÷ 174 MHz

R-V 111 XH

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	1/4 λ
Frequency Band (MHz)	144 ÷ 174
Impedance (Ω)	50
VSWR at resonant frequency	≤ 1.5
Gain (dBd)	0
Bandwidth at resonant frequency (MHz)	6
Polarization	vertical
Continuous Max Power (W)	100

Mechanical Specifications

Type of connection (M17/028-RG058 coaxial connection)	4.5 mt
Length of the whip (mm)	520
Whip material	17/7 PH passivated - cylindrical
Mounting hole (mm)	$\varnothing 24$
Net weight (g)	350
Working Temperature ($^{\circ}\text{C}$)	-35 ÷ +80

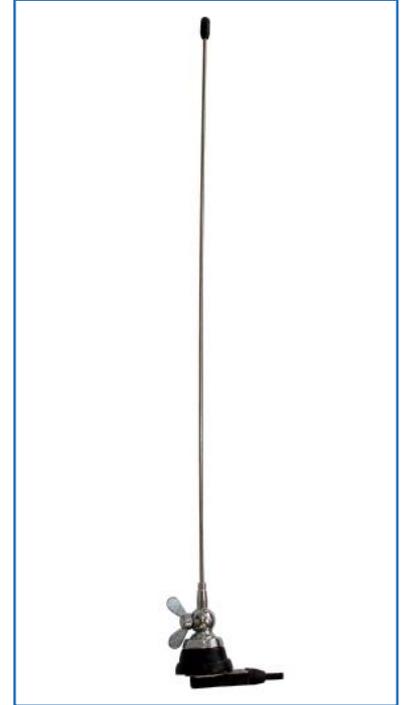
DESCRIPTION:

Mobile whip antenna with relative base for VHF vehicular applications.

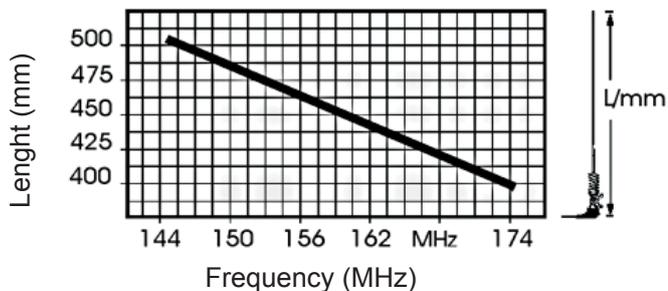
Conical 17/7 PH passivated whip.

Tunable by whip cutting (see cutting diagram).

- BASE CODE : R-K 85.01
- STEEL CODE: R-K 80.03



Cutting Diagram



By



We reserve the right to modify these data without any notice



MOBILE CUTTABLE WHIP VHF ANTENNA

400 ÷ 470 MHz

R-V 311 XQ

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	1/4 λ
Frequency Band (MHz)	400 ÷ 470
Impedance (Ω)	50
VSWR at resonant frequency	≤ 2
Gain (dBd)	2
Bandwidth at resonant frequency (MHz)	12
Polarization	vertical
Continuous Max Power (W)	100

Mechanical Specifications

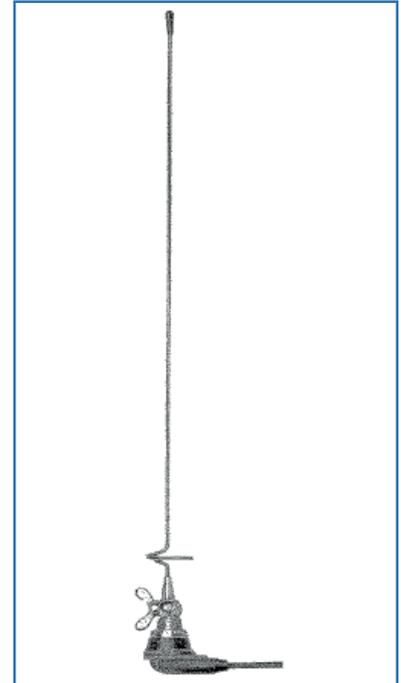
Type of connection (M17/028-RG058 coaxial connection)	4.5 mt
Length of the whip (mm)	480
Whip material	Inox steel cylindrical
Spring material	Inox steel
Mounting hole (mm)	Ø 24
Net weight (g)	380
Working Temperature (°C)	-35 ÷ +80

DESCRIPTION:

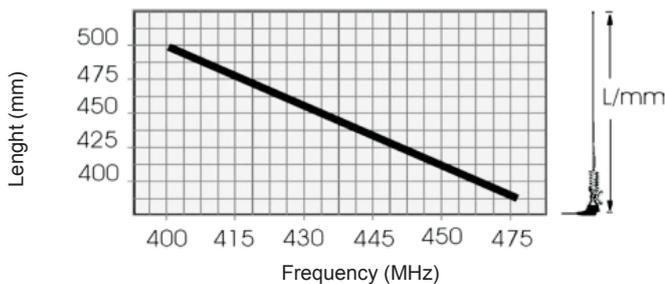
Mobile whip antenna with relative base for UHF vehicular applications.

Inox steel whip and inox steel spring.

Tunable by whip cutting (see cutting diagram).



Cutting Diagram



By

We reserve the right to modify these data without any notice



VEHICULAR CUTTABLE WHIP UHF ANTENNA

435 ÷ 470 MHz

R-V 511 XZ

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

Electrical Specifications

Type	1/4 λ
Frequency Band (MHz)	435 ÷ 470
Impedance (Ω)	50
VSWR at resonant frequency	≤ 2
Gain (dBd)	4
Bandwidth at resonant frequency (MHz)	12
Polarization	vertical
Continuous Max Power (W)	100

Mechanical Specifications

Type of connection (M17/028-RG058 coaxial connection)	4.5 mt
Length of the whip (mm)	600
Whip material	Inox steel cylindrical
Spring material	Inox steel
Mounting hole (mm)	$\varnothing 24$
Net weight (g)	440
Working Temperature ($^{\circ}\text{C}$)	-35 ÷ +80

DESCRIPTION:

Mobile whip antenna with relative base for UHF vehicular applications.

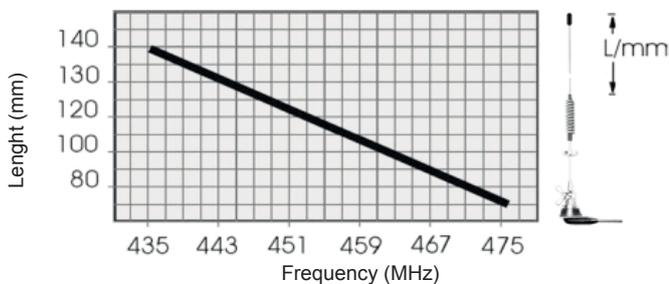
Inox steel whip and inox steel spring.

Tunable by whip cutting (see cutting diagram).

- BASE CODE: R-K 85.01
- STEEL CODE: R-K 80.04



Cutting Diagram



By



We reserve the right to modify these data without any notice



VEHICULAR TUNABLE VHF WHIP

164 ÷ 174 MHz

GT FLEX V

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	1/4 λ
Frequency Band VHF (MHz)	164 ÷ 174 MHz
Impedance (Ω)	50
VSWR at resonant frequency	< 1.6 :1
Polarization	vertical
Gain (dBd) over 1/4 λ monopole	0
Max RF Power (W)	30

Mechanical Specifications

Type of connections (RG 174 cable)	Pigtail 30 cm. of RG 174 + extension cable on request
Extension cable	RG58 5-7-10m
Length of the whip (mm)	abt. 470 mm max
whip material	stainless steel
Mounting hole (mm)	see perforation mask
Temperature range (°C)	-40 ÷ + 70
Total weight (kg)	abt. 0.3

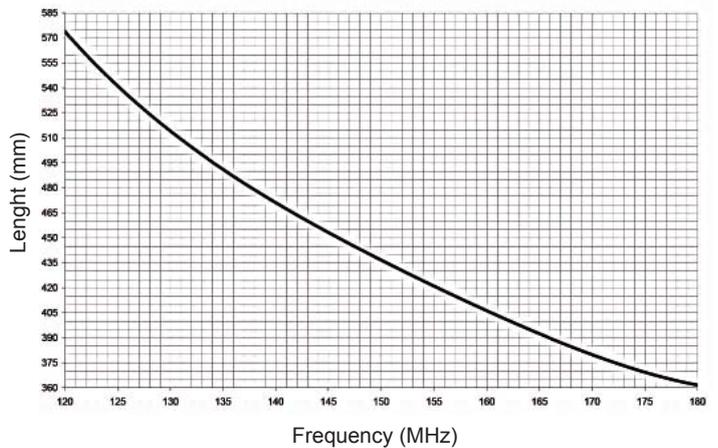
DESCRIPTION:

Vehicular VHF whip antenna.

Stainless steel whip tunable by cutting (see cutting diagram).



Cutting Diagram 164 ÷ 174 MHz



We reserve the right to modify these data without any notice



VEHICULAR TUNABLE VHF WHIP AND GPS BAND

140 ÷ 175 MHz and 1575.42 ± 3 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

GT FLEX VG

PMR

Electrical Specifications

Type	1/4 λ
Frequency Band VHF (MHz)	140 ÷ 175
Impedance (Ω)	50
VSWR at resonant frequency	≤ 2
Polarization	vertical
Gain (dBd) over 1/4 λ monopole	0
Max RF Power (W)	30

GPS Specifications

Type	Patch
Frequency Band GPS (MHz)	1575.42 ± 3
VSWR at resonant frequency	≤ 2
Polarization	RHCP
Gain (dBi)	1 min (70x70 ground plane)
Continuous Max Power (W)	30

LNA GPS

Gain (dB)	29 typ. (5 Vdc power supply)
Noise Figure (dB)	2 max. (5 Vdc power supply)
Attenuation (dB)	28 min. (@1575.42±100 MHz)
VSWR	≤ 2
Consumption current (mA)	30 max
Output impedance (Ω)	5
Operating voltage (Vdc)	3 ÷ 5

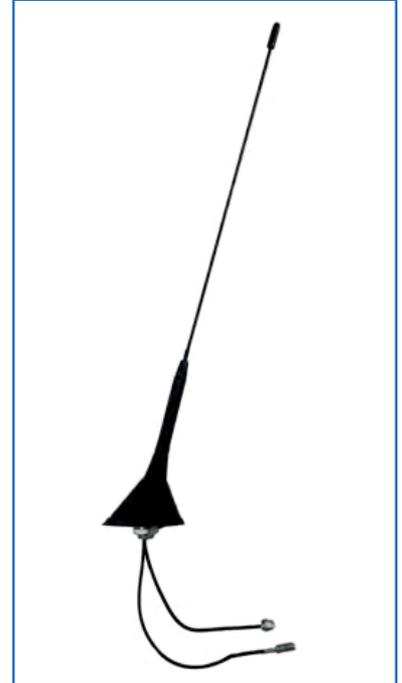
Mechanical Specifications

Type of connections (RG 174 cable)	SMA Female for VHF SMA Male for GPS Length at request
Length of the whip (mm)	470
whip material	stainless steel
Mounting hole (mm)	Ø 19 or 15
Temperature range (°C)	-40 ÷ + 70
Total weight (kg)	abt. 0.3

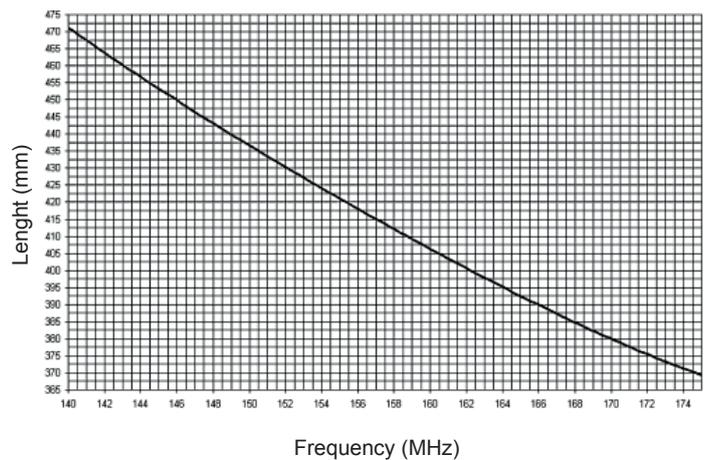
DESCRIPTION:

Vehicular VHF whip antenna and GPS bands with base.

Stainless steel whip tunable by cutting (see cutting diagram).



Cutting Diagram



By



We reserve the right to modify these data without any notice



VEHICULAR TUNABLE VHF WHIP

GT FLEX U

380 ÷ 400 MHz or 450 ÷ 470 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	1/4 λ
Frequency Band VHF (MHz)	380 ÷ 400 / 450 ÷ 470 MHz
Impedance (Ω)	50
VSWR at resonant frequency	< 2:1
Polarization	vertical
Gain (dBd) over 1/4 λ monopole	0
Max RF Power (W)	30

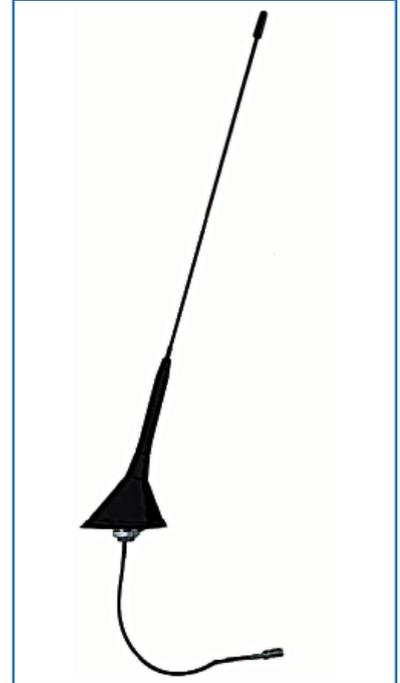
Mechanical Specifications

Type of connections (RG 174 cable)	Pigtail 30 cm. of RG 174 + extension cable on request
Length of the whip (mm)	abt. 380
whip material	antihissing whip
Mounting hole (mm)	see perforation mask
Temperature range (°C)	-40 ÷ + 70
Total weight (kg)	abt. 0.3

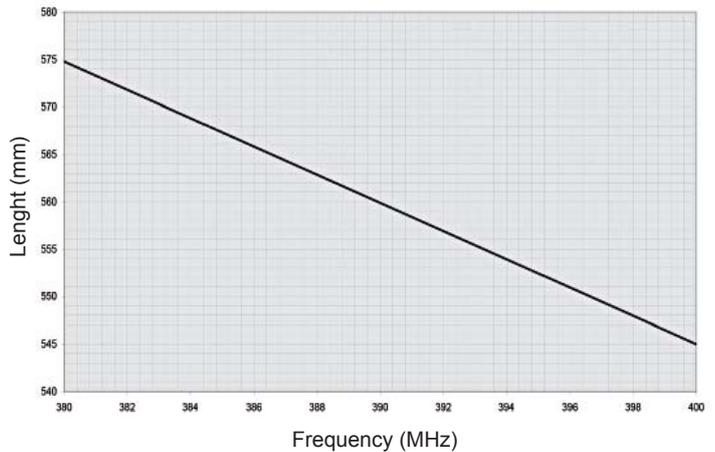
DESCRIPTION:

Vehicular VHF whip antenna.

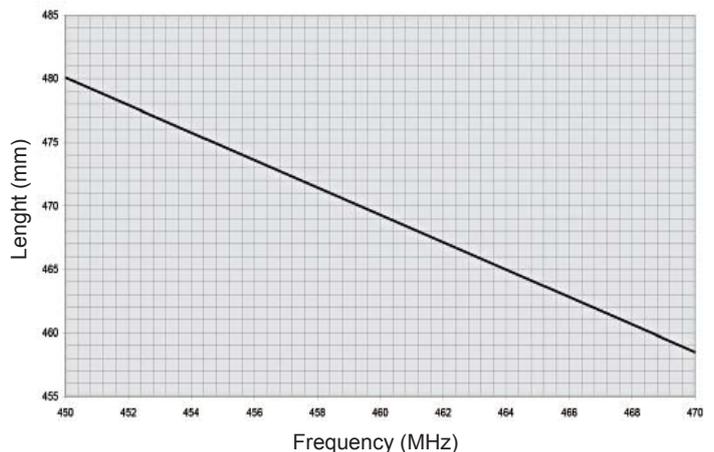
Antihissing whip tunable by cutting (see cutting diagram).



Cutting Diagram 380 ÷ 400 MHz



Cutting Diagram 450 ÷ 470 MHz



We reserve the right to modify these data without any notice



VEHICULAR TUNABLE UHF WHIP AND GPS BAND

370 ÷ 480 MHz and 1575.42 ± 3 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

GT FLEX UG

PMR

Electrical Specifications

Type	1/4 λ
Frequency Band VHF (MHz)	370 ÷ 480
Impedance (Ω)	50
VSWR at resonant frequency	≤ 2
Polarization	vertical
Gain (dBd) over 1/4 λ monopole	0
Max RF Power (W)	30

GPS Specifications

Type	Patch
Frequency Band GPS (MHz)	1575.42 ± 3
VSWR at resonant frequency	≤ 2
Polarization	RHCP
Gain (dBi)	1 min (70x70 ground plane)
Continuous Max Power (W)	30

LNA GPS

Gain (dB)	29 typ. (5 Vdc power supply)
Noise Figure (dB)	2 max. (5 Vdc power supply)
Attenuation (dB)	28 min. (@1575.42±100 MHz)
VSWR	≤ 2
Consumption current (mA)	30 max
Output impedance (Ω)	5
Operating voltage (Vdc)	3 ÷ 5

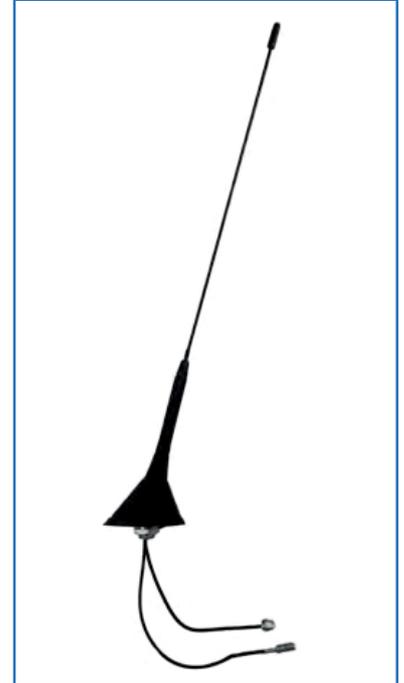
Mechanical Specifications

Type of connections (RG 174 cable)	SMA Female for VHF SMA Male for GPS Length at request
Length of the whip (mm)	560
whip material	stainless steel
Mounting hole (mm)	Ø 19 or 15
Temperature range (°C)	-40 ÷ + 70
Total weight (kg)	abt. 0.3

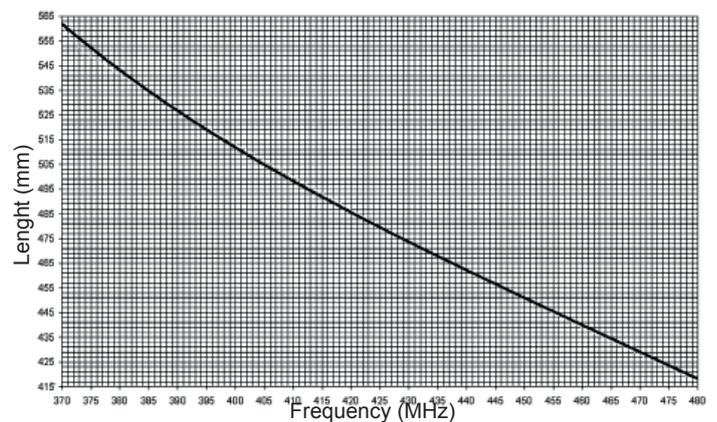
DESCRIPTION:

Vehicular UHF whip antenna and GPS bands with base.

Stainless steel whip tunable by cutting (see cutting diagram).



Cutting Diagram



By



We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

73 ÷ 84 MHz

SF 020

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

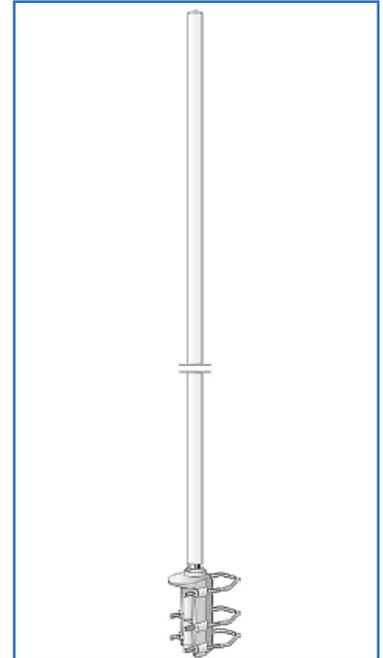
Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	73 ÷ 84	
Impedance (Ω)	50	
VSWR	<1.7	
Polarization	vertical	
HPBW (deg)	Vertical plane	69
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	200 (400 peak)	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.

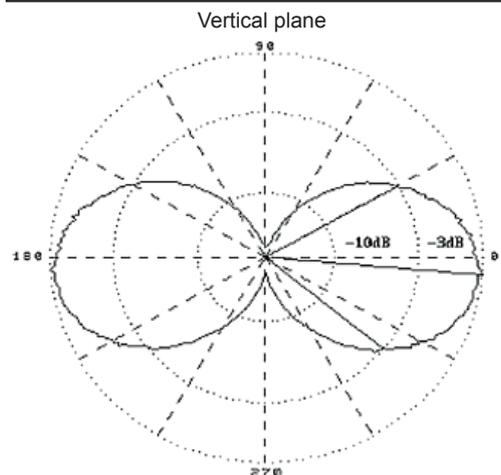


OMNI ANTENNAS

Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	30 ÷ 62
Radome material	Fiberglass
Wind resistance (km/h)	120
Temperature range (°C)	-40 ÷ +75
Length (mm)	2500
Weight (kg)	4.0

Radiation Patterns



We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

70 ÷ 75 MHz

R-F 131 NE

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

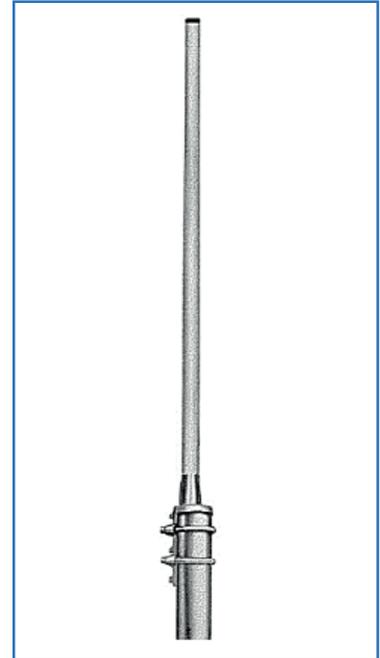
Electrical Specifications

Product	R-F 131 NE	
Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	70 ÷ 75	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	78
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

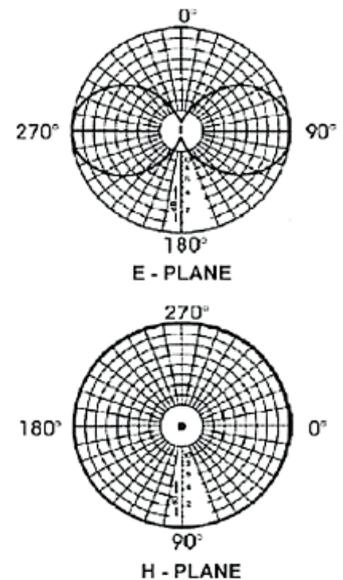
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Product	R-F 131 NE
Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Radiator Coverage	Fiberglass
Elements material	Brass passivated
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Length (mm)	2450
Weight (kg)	2.6

Radiation Patterns



By

We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

75 ÷ 80 MHz

R-F 130 NE

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

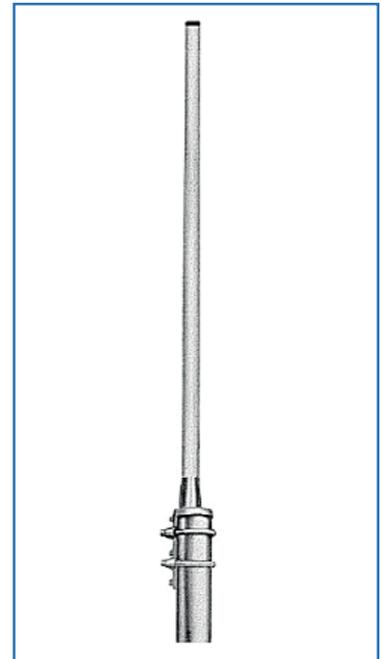
Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	75 ÷ 80	
Impedance (Ω)	50	
VSWR	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	78
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.

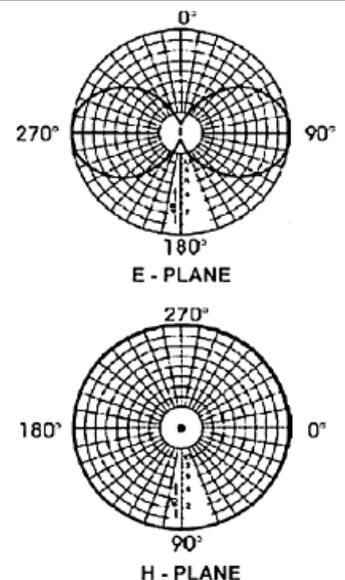


OMNI ANTENNAS

Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Radiator Coverage	Fiberglass	
Elements material	Brass passivated	
Wind resistance (km/h)	160	
Temperature range ($^{\circ}\text{C}$)	-35 ÷ +80	
Length (mm)	2450	
Weight (kg)	2.6	

Radiation Patterns



By



We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

118 ÷ 148 MHz

SF 120 L

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

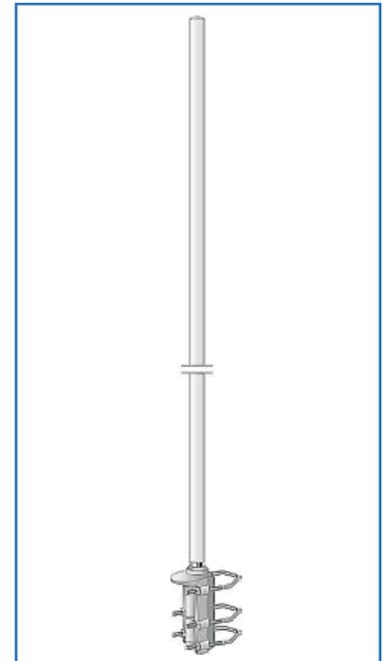
Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	118 ÷ 148	
Impedance (Ω)	50	
VSWR	<1.7	
Polarization	vertical	
HPBW (deg)	Vertical plane	69
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	200 (400 peak)	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

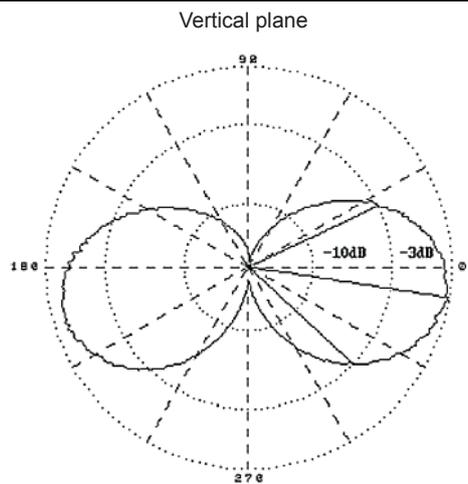
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	30 ÷ 62
Radome material	Fiberglass
Wind resistance (km/h)	120
Temperature range (°C)	-40 ÷ +75
Length (mm)	1300
Weight (kg)	2.0

Radiation Patterns



OMNI ANTENNAS



We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

142 ÷ 160 MHz

R-F 331 NG

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	142 ÷ 160	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	21
	Horizontal plane	Omni
Gain (dBd)	3	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.

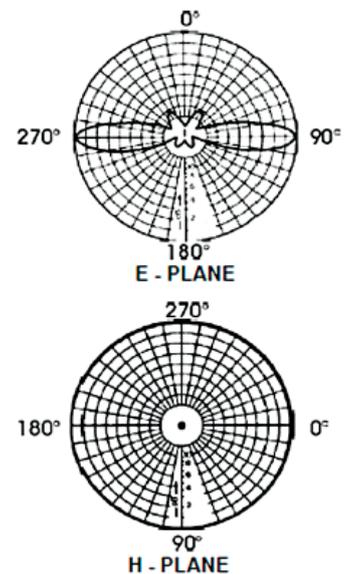


OMNI ANTENNAS

Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Radiator Coverage	Fiberglass
Elements material	Brass passivated
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Length (mm)	2450
Weight (kg)	2.4

Radiation Patterns



By

We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

145 ÷ 175 MHz

SF 120 H

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

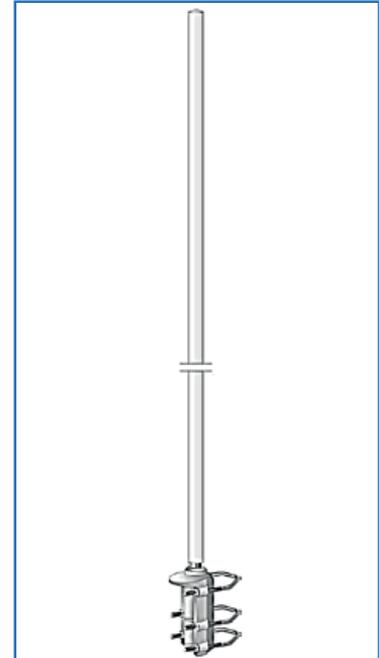
Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	145 ÷ 175	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.7	
Polarization	vertical	
HPBW (deg)	Vertical plane	69
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	200 (400 peak)	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

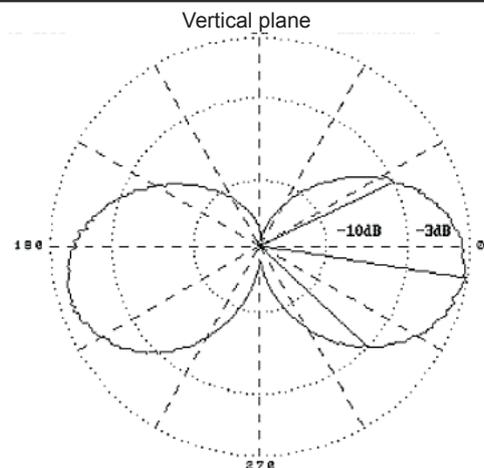
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	30 ÷ 62
Radome material	Fiberglass
Wind resistance (km/h)	120
Temperature range (°C)	-40 ÷ +75
Length (mm)	1300
Weight (kg)	2.0

Radiation Patterns



By



We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

147 ÷ 156 MHz

R-F 130 NG

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	147 ÷ 156	
Impedance (Ω)	50	
VSWR	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	78
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.

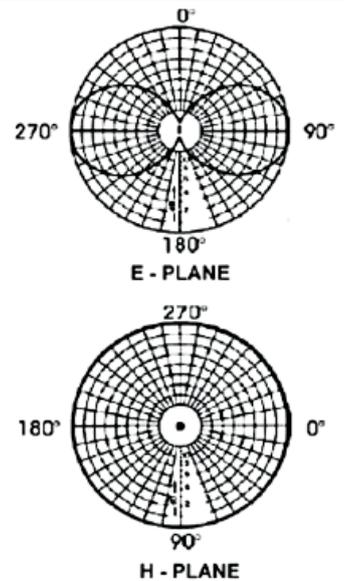


OMNI ANTENNAS

Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Radiator Coverage	Fiberglass	
Elements material	Brass passivated	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Length (mm)	1410	
Weight (kg)	1.2	

Radiation Patterns



By

We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

156 ÷ 165 MHz

R-F 132 NH

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	156 ÷ 165	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	78
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

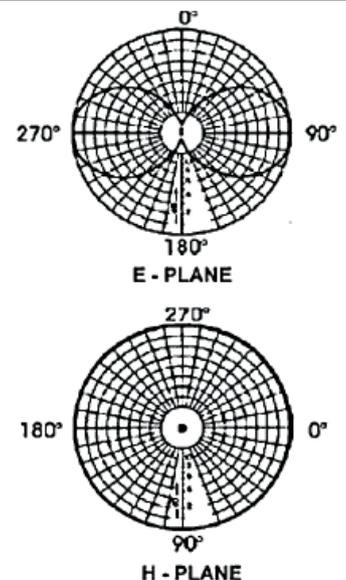
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Radiator Coverage	Fiberglass
Elements material	Brass passivated
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Length (mm)	1270
Weight (kg)	1.2

Radiation Patterns



OMNI ANTENNAS

By

We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

165 ÷ 174 MHz

R-F 133 NH

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	165 ÷ 174	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	78
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.

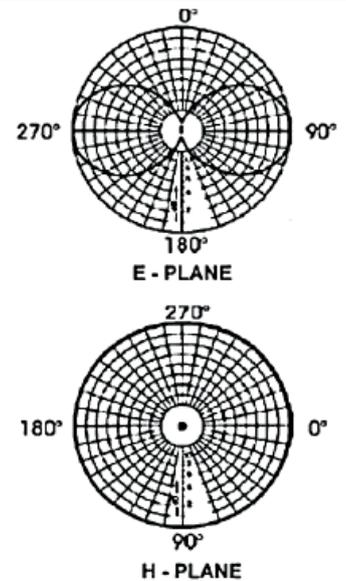


OMNI ANTENNAS

Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Radiator Coverage	Fiberglass
Elements material	Brass passivated
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Length (mm)	1270
Weight (kg)	1.2

Radiation Patterns



By 

We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

147 ÷ 173 MHz

R-F 333 NH

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

OMNI ANTENNAS

Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	147 ÷ 173	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	21
	Horizontal plane	Omni
Gain (dBd)	3	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

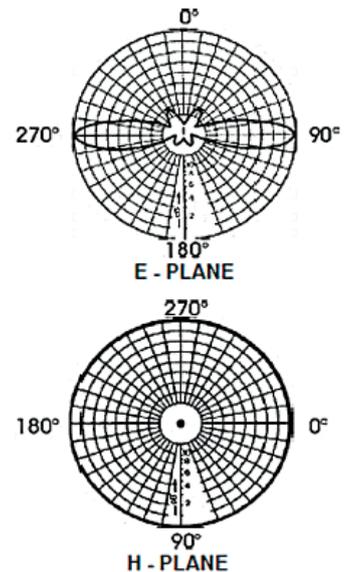
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Radiator Coverage	Fiberglass	
Elements material	Brass passivated	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Length (mm)	2450	
Weight (kg)	2.4	

Radiation Patterns



By

We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

154 ÷ 170 MHz

R-F 332 NH

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	154 ÷ 170	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	21
	Horizontal plane	Omni
Gain (dBd)	4	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.

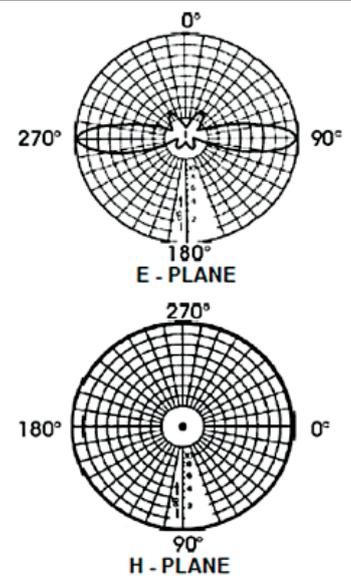


OMNI ANTENNAS

Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Radiator Coverage	Fiberglass	
Elements material	Brass passivated	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Length (mm)	2450	
Weight (kg)	2.4	

Radiation Patterns



By



We reserve the right to modify these data without any notice



HALF WAVE DIPOLE VHF ANTENNA

158 ÷ 174 MHz

R-F 331 NH

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	158 ÷ 174	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	21
	Horizontal plane	Omni
Gain (dBd)	4	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for VHF band.

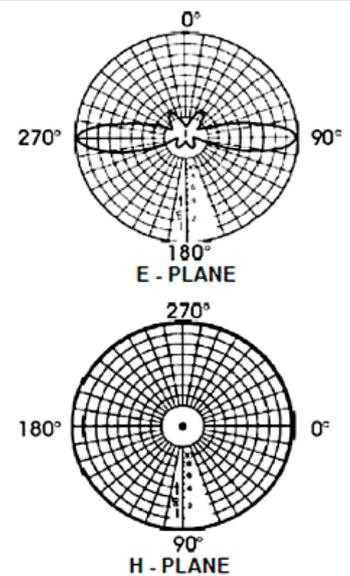
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Radiator Coverage	Fiberglass
Elements material	Brass passivated
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Length (mm)	2450
Weight (kg)	2.4

Radiation Patterns



By

We reserve the right to modify these data without any notice



COLINEAR UHF ANTENNA

380 ÷ 430 MHz

SF 333

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

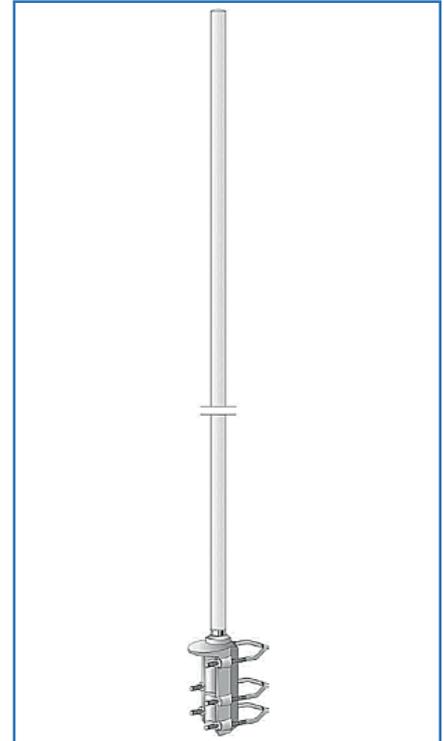
Electrical Specifications

Type	3 elements colinear	
Frequency Band (MHz)	380 ÷ 430	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.8	
Polarization	vertical	
HPBW (deg)	Vertical plane	28
	Horizontal plane	Omni
Gain (dBd)	3.5	
Continuous Max Power (W)	200 (400 peak)	

DESCRIPTION:

3 elements colinear antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection and with condensing hole.

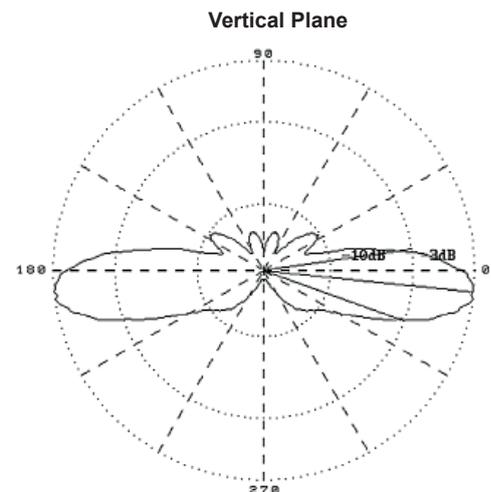


OMNI ANTENNAS

Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	30 ÷ 62
Radome material	Fiberglass
Length (mm)	1700
Weight (kg)	2.1
Temperature range (°C)	-40 ÷ +55
Wind resistance (km/h)	180

Radiation Patterns



By



We reserve the right to modify these data without any notice



COLINEAR UHF ANTENNA

380 ÷ 400 MHz

R-F 530 NL

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

OMNI ANTENNAS

Electrical Specifications

Type	colinear	
Frequency Band (MHz)	380 ÷ 400	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	18
	Horizontal plane	Omni
Gain (dBd)	5	
Continuous Max Power (W)	100	

DESCRIPTION:

Colinear antenna for UHF band.

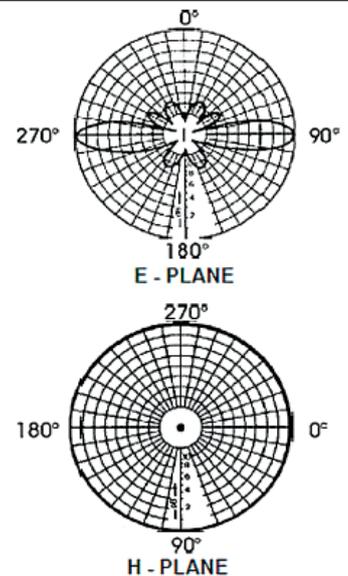
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Product	R-F 330 NQ
Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Radiator Coverage	Fiberglass
Elements material	Brass passivated
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Length (mm)	2360
Weight (kg)	2.2

Radiation Patterns



By

We reserve the right to modify these data without any notice



COLINEAR UHF ANTENNA

380 ÷ 430 MHz

SF 335

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

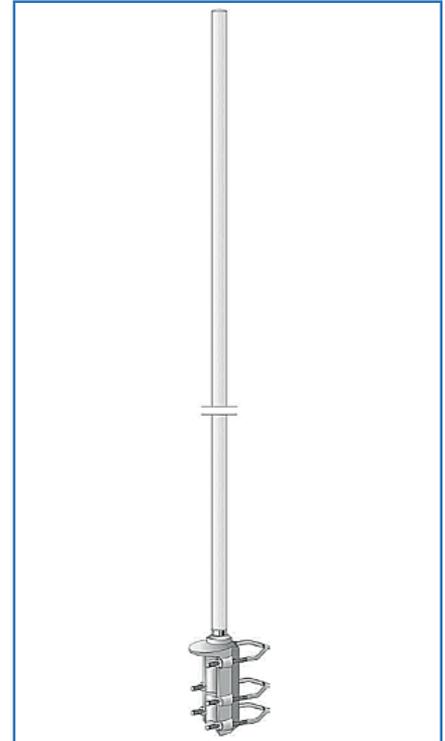
Electrical Specifications

Type	4 elements colinear	
Frequency Band (MHz)	380 ÷ 430	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	22
	Horizontal plane	Omni
Gain (dBd)	5	
Continuous Max Power (W)	200 (400 peak)	

DESCRIPTION:

4 elements colinear antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection and with condensing hole.

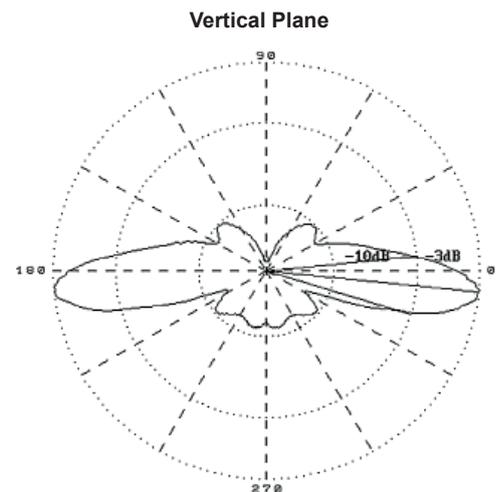


OMNI ANTENNAS

Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	30 ÷ 62
Radome material	Fiberglass
Length (mm)	2450
Weight (kg)	2.5
Temperature range (°C)	-40 ÷ +80
Wind resistance (km/h)	180

Radiation Patterns



By



We reserve the right to modify these data without any notice



HALF WAVE DIPOLE UHF ANTENNA

400 ÷ 435 MHz

R-F 330 NO

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	400 ÷ 435	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	30
	Horizontal plane	Omni
Gain (dBd)	3	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for UHF band.

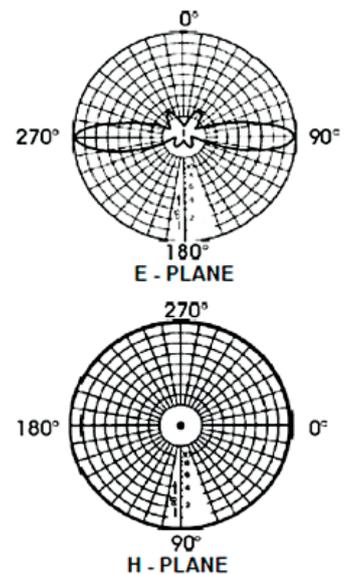
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Radiator Coverage	Fiberglass	
Elements material	Brass passivated	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Length (mm)	1410	
Weight (kg)	1.3	

Radiation Patterns



OMNI ANTENNAS

By

We reserve the right to modify these data without any notice



HALF WAVE DIPOLE UHF ANTENNA

400 ÷ 470 MHz

SF 420

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	400 ÷ 470	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	74
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	200 (400 peak)	

DESCRIPTION:

Half wave vertical dipole antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection.

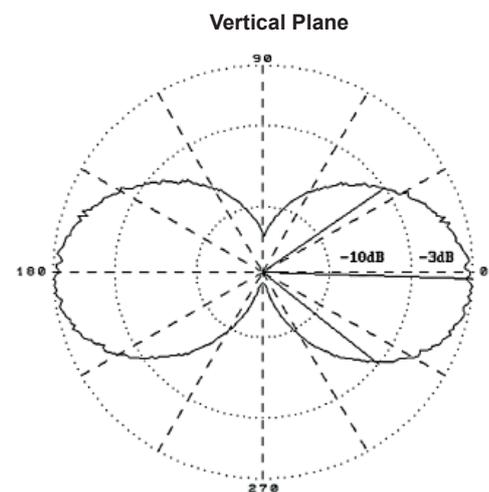


OMNI ANTENNAS

Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	30 ÷ 62
Radome material	Fiberglass
Length (mm)	635
Weight (kg)	1.5
Temperature range (°C)	-40 ÷ +75
Wind resistance (km/h)	160

Radiation Patterns



We reserve the right to modify these data without any notice



HALF WAVE DIPOLE UHF ANTENNA

400 ÷ 435 MHz

R-F 530 NQ

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Product	R-F 530 NQ	
Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	400 ÷ 435	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	18
	Horizontal plane	Omni
Gain (dBd)	5	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for UHF band.

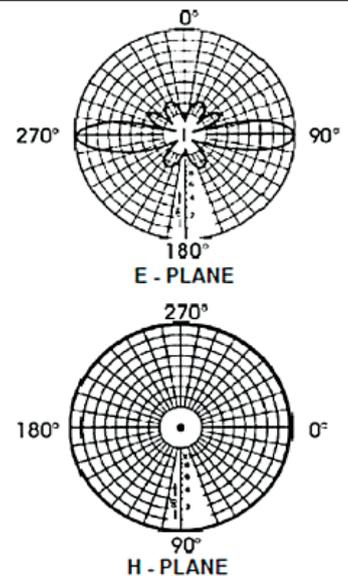
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Product	R-F 530 NQ	
Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Radiator Coverage	Fiberglass	
Elements material	Brass passivated	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Length (mm)	2210	
Weight (kg)	1.9	

Radiation Patterns



OMNI ANTENNAS

By

We reserve the right to modify these data without any notice



HALF WAVE DIPOLE UHF ANTENNA

435 ÷ 470 MHz

R-F 130 NZ

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

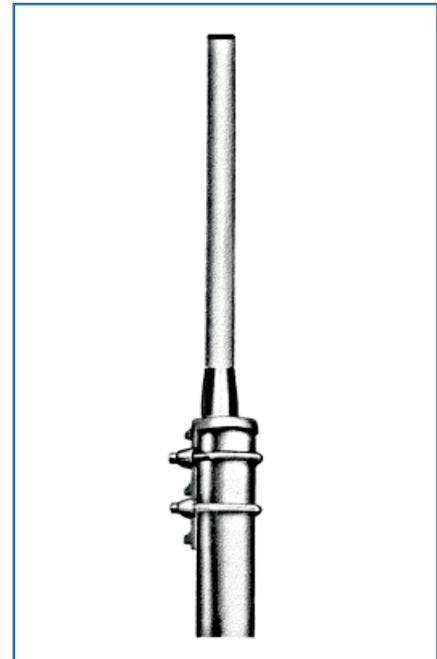
Electrical Specifications

Product	R-F 130 NZ	
Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	435 ÷ 470	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	78
	Horizontal plane	Omni
Gain (dBd)	0	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection.

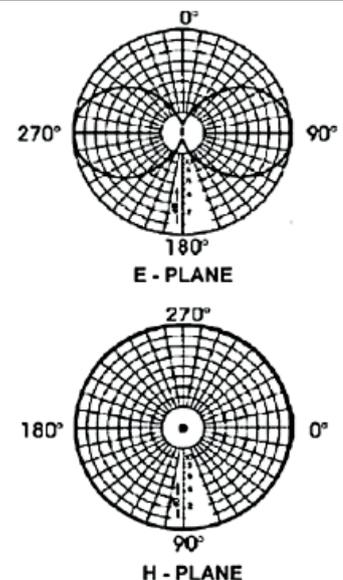


OMNI ANTENNAS

Mechanical Specifications

Product	R-F 130 NZ	
Type of connection	N female	
Mounting hole (mm)	30 ÷ 60	
Elements material	Brass passivated	
Radome coverage	Fiberglass	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Length (mm)	700	
Weight (kg)	1.0	

Radiation Patterns



By



We reserve the right to modify these data without any notice



HALF WAVE DIPOLE UHF ANTENNA

435 ÷ 470 MHz

R-F 330 NZ

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Product	R-F 330 NZ
Type	Half Wave Vertical Dipole
Frequency Band (MHz)	435 ÷ 470
Impedance (Ω)	50
VSWR at resonant frequency	<1.5
Polarization	vertical
HPBW (deg)	Vertical plane 30 Horizontal plane Omni
Gain (dBd)	3
Continuous Max Power (W)	100

Mechanical Specifications

Product	R-F 330 NQ
Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Radiator Coverage	Fiberglass
Elements material	Brass passivated
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Length (mm)	1270
Weight (kg)	1.2

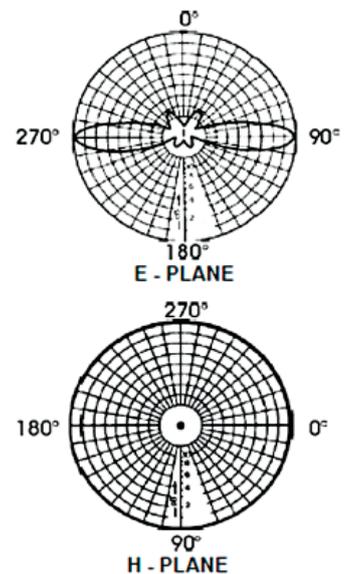
DESCRIPTION:

Half wave vertical dipole antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection.



Radiation Patterns



OMNI ANTENNAS

By

We reserve the right to modify these data without any notice



HALF WAVE DIPOLE UHF ANTENNA

435 ÷ 470 MHz

R-F 530 NZ

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Product	R-F 530 NZ	
Type	Half Wave Vertical Dipole	
Frequency Band (MHz)	435 ÷ 470	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	18
	Horizontal plane	Omni
Gain (dBd)	5	
Continuous Max Power (W)	100	

DESCRIPTION:

Half wave vertical dipole antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection.

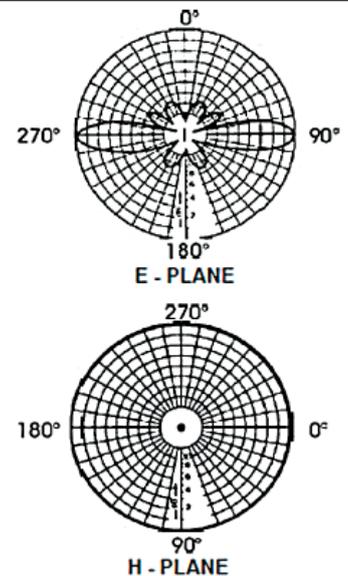


OMNI ANTENNAS

Mechanical Specifications

Product	R-F 530 NQ
Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Radiator Coverage	Fiberglass
Elements material	Brass passivated
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Length (mm)	1980
Weight (kg)	1.8

Radiation Patterns



By

We reserve the right to modify these data without any notice



FOUR STACKED FOLDED DIPOLES UHF ANTENNA

400 ÷ 470 MHz

R-F 610 NQ

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Product	R-F 610 NQ	
Type	4 dipoles in colinear configuration	
Frequency Band (MHz)	400 ÷ 470	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	14
	Horizontal plane	Omni
Gain (dBd)	8	
Continuous Max Power (W)	600	

DESCRIPTION:

Four folded dipoles set-up in colinear configuration antenna for UHF band.

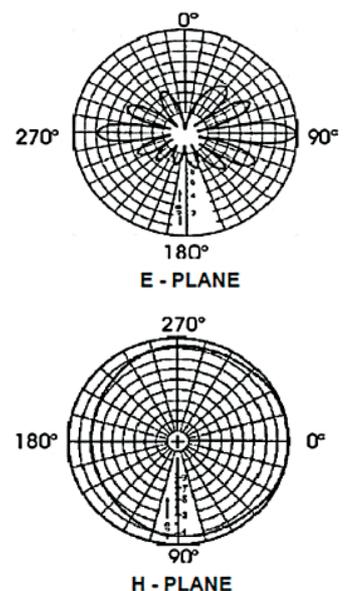
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Product	R-F 610 NQ
Type of connection	N female
Mounting hole (mm)	30 ÷ 60
Elements material	Aluminium alloy DIN 3.2315
Boom material	Aluminium alloy DIN 3.2306
Length (mm)	2410
Weight (kg)	7.5
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80

Radiation Patterns



By

We reserve the right to modify these data without any notice



HALF WAVE CENTER FED DIPOLE VHF ANTENNA

66 ÷ 80 MHz

R-Y 010 NE

PMR

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

Electrical Specifications

Type	Half Wave Center Fed Dipole	
Frequency Band (MHz)	66 ÷ 80	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	74
	Horizontal plane	Omni
Gain (dBd)	1	
Continuous Max Power (W)	150	

DESCRIPTION:

Half wave center fed dipole antenna for VHF band.

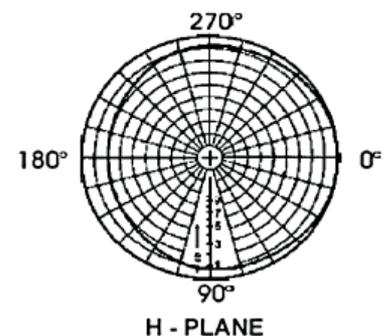
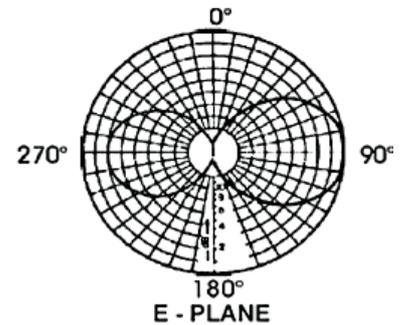
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm) on master tube	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	120	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	1515 x 820	
Weight (kg)	3.6	

Radiation Patterns



DIRECTIONAL ANTENNAS

By



We reserve the right to modify these data without any notice



YAGI 2 ELEMENTS VHF ANTENNA

68 ÷ 80 MHz

R-Y 210 NE

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

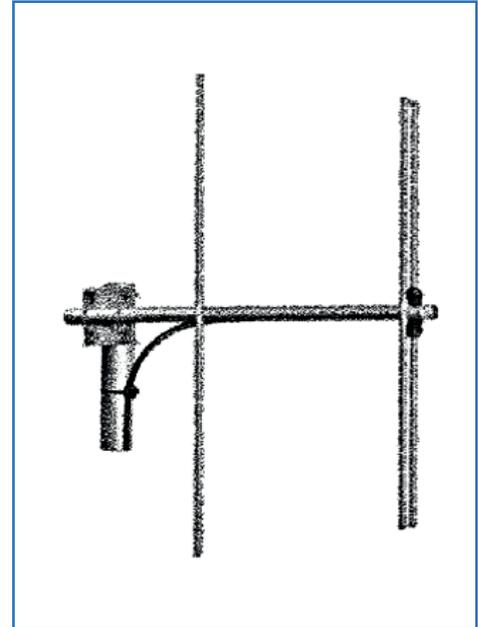
Electrical Specifications

Type	Yagi 2 elements	
Frequency Band (MHz)	68 ÷ 80	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	72
	Horizontal plane	150
Gain (dBd)	3	
Front to back Ratio (dBd)	>9	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 2 elements antenna for VHF band.

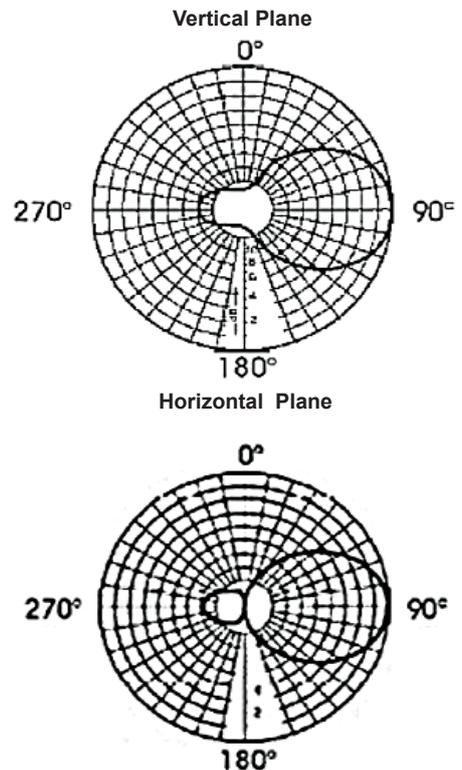
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	1515 x 2230	
Weight (kg)	3.8	

Radiation Patterns



We reserve the right to modify these data without any notice



YAGI 4 ELEMENTS VHF ANTENNA

73.5 ÷ 76.5 MHz

SY 054

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

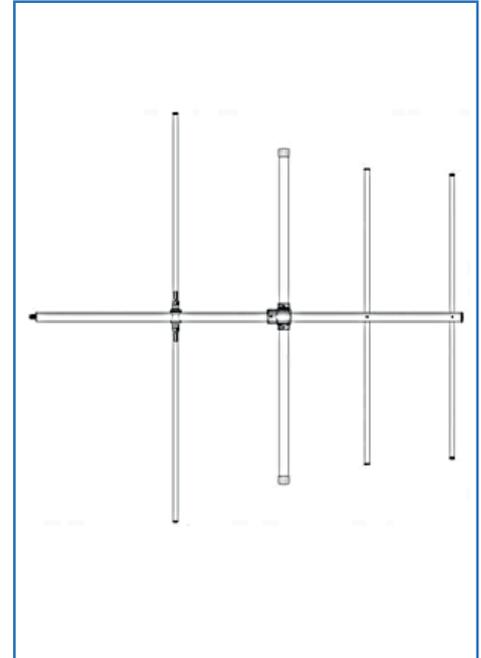
Electrical Specifications

Type	Yagi 4 elements	
Frequency Band (MHz)	73.5 ÷ 76.5	
Impedance (Ω)	50	
VSWR at resonant frequency	≤1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	64
	Horizontal plane	113
Gain (dBd)	5	
Front to back Ratio (dBd)	>14	
Continuous Max Power (W)	200	

DESCRIPTION:

Yagi 4 elements antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.

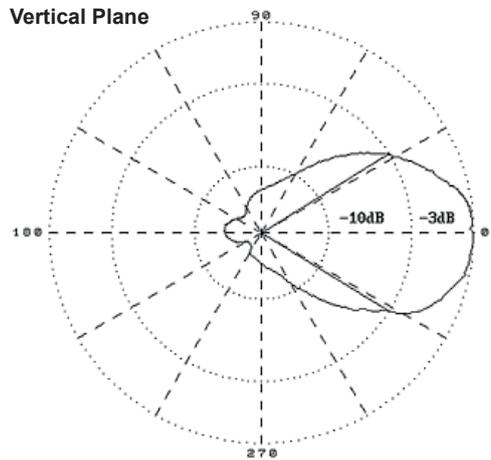


Mechanical Specifications

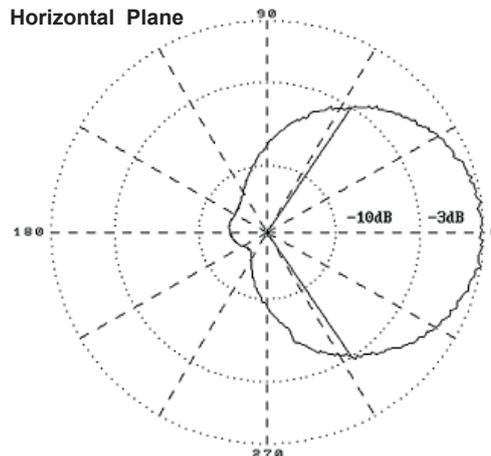
Mounting hole on master tube (mm)	30 ÷ 62	
Radiator Coverage	Fiberglass	
Boom material	Anodized Aluminium	
Elements material	Anodized Aluminium	
Wind resistance (km/h)	120	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	2405 x 2100	
Weight (kg)	7.0	

Radiation Patterns

Vertical Plane



Horizontal Plane



We reserve the right to modify these data without any notice



YAGI 2 ELEMENTS VHF ANTENNA

80 ÷ 87 MHz

SY 052

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Yagi 2 elements	
Frequency Band (MHz)	80 ÷ 87	
Impedance (Ω)	50	
VSWR at resonant frequency	≤ 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	75
	Horizontal plane	202
Gain (dBd)	3	
Front to back Ratio (dBd)	>10	
Continuous Max Power (W)	200	

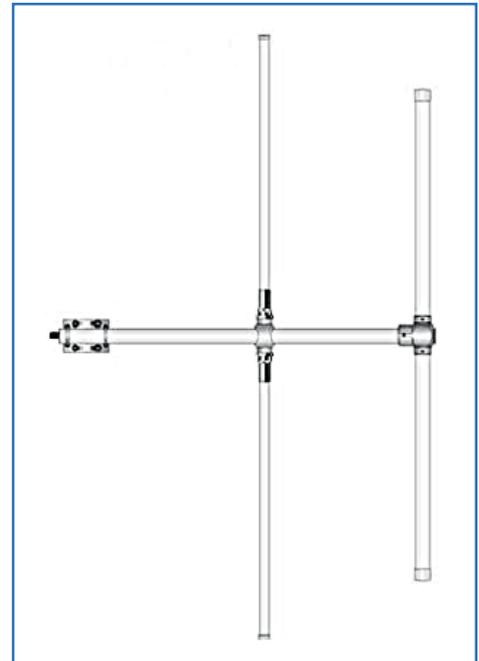
Mechanical Specifications

Mounting hole on master tube (mm)	30 ÷ 62
Radiator Coverage	Fiberglass
Boom material	Anodized Aluminium
Elements material	Anodized Aluminium
Wind resistance (km/h)	120
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	1950 x 1090
Weight (kg)	4.5

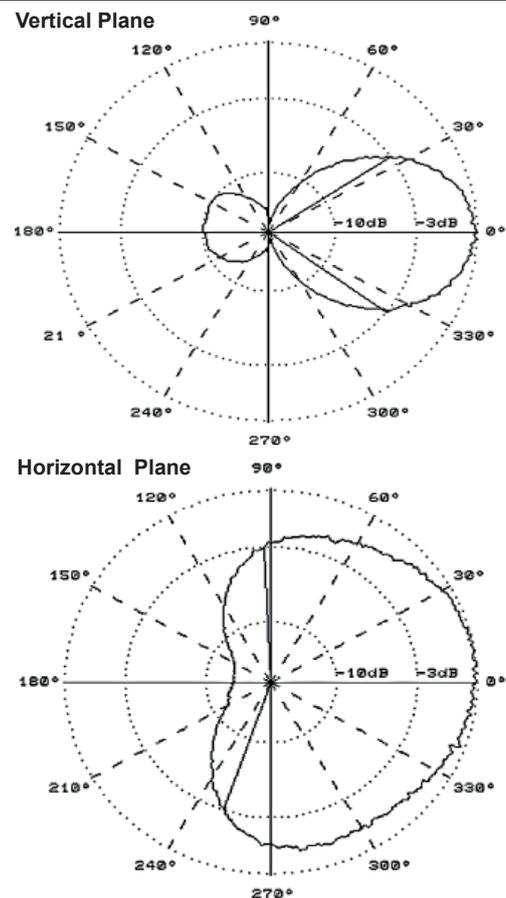
DESCRIPTION:

Yagi 2 elements antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.



Radiation Patterns



We reserve the right to modify these data without any notice



YAGI 3 ELEMENTS VHF ANTENNA

110 ÷ 120 MHz

SY 153 A

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

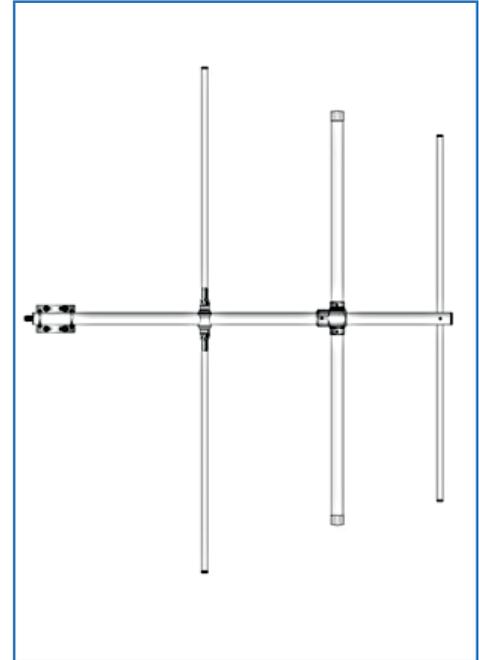
Electrical Specifications

Type	Yagi 3 elements	
Frequency Band (MHz)	110 ÷ 120	
Impedance (Ω)	50	
VSWR at resonant frequency	≤ 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	70
	Horizontal plane	142
Gain (dBd)	5.5	
Front to back Ratio (dBd)	>17	
Continuous Max Power (W)	200	

DESCRIPTION:

Yagi 3 elements antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.

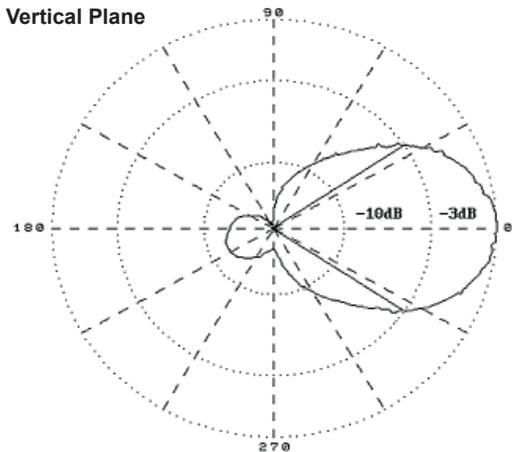


Mechanical Specifications

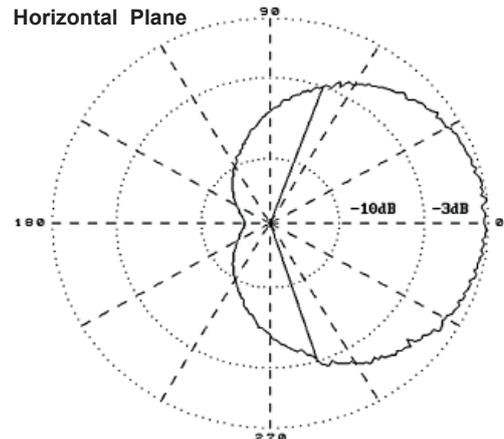
Type of connection	N female	
Mounting hole on master tube (mm)	30 ÷ 62	
Radiator Coverage	Fiberglass	
Boom material	Anodized Aluminium	
Elements material	Anodized Aluminium	
Wind resistance (km/h)	120	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	1430 x 1430	
Weight (kg)	4.0	

Radiation Patterns

Vertical Plane



Horizontal Plane



DIRECTIONAL ANTENNAS



We reserve the right to modify these data without any notice



HALF WAVE CENTER FED DIPOLE VHF ANTENNA

140 ÷ 174 MHz

R-Y 010 NG

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Product	R-Y 010 NG	
Type	Half Wave Center Fed Dipole	
Frequency Band (MHz)	140 ÷ 174	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	74
	Horizontal plane	Omni
Gain (dBd)	1	
Continuous Max Power (W)	150	

DESCRIPTION:

Half wave center fed dipole antenna for VHF band.

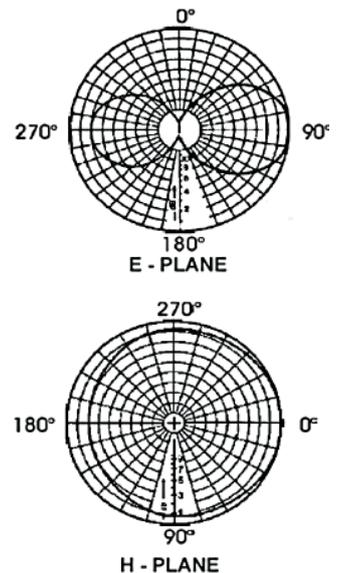
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Product	R-Y 010 NG
Type of connection	N female
Mounting hole (mm) on master tube	33 ÷ 60
Boom material	Aluminium alloy DIN 3.2315
Elements material	Aluminium alloy DIN 3.2306
Wind resistance (km/h)	120
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	615 x 820
Weight (kg)	2.4

Radiation Patterns



By RAC

We reserve the right to modify these data without any notice



YAGI 4 ELEMENTS VHF ANTENNA

140 ÷ 158 MHz

SY 154 L

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

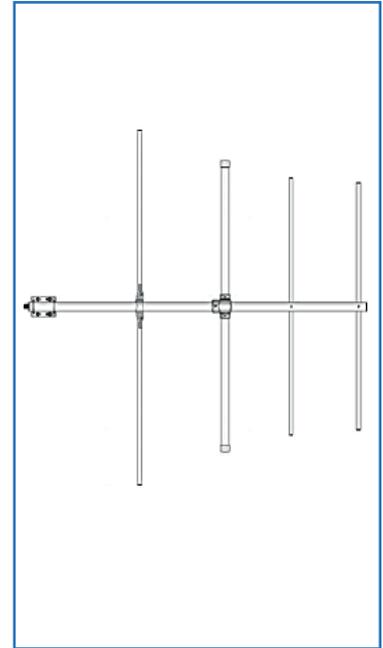
Electrical Specifications

Type	Yagi 4 elements	
Frequency Band (MHz)	140 ÷ 158	
Impedance (Ω)	50	
VSWR at resonant frequency	≤1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	81
	Horizontal plane	56
Gain (dBd)	7	
Front to back Ratio (dBd)	>14	
Continuous Max Power (W)	200	

DESCRIPTION:

Yagi 4 elements antennas for VHF band.

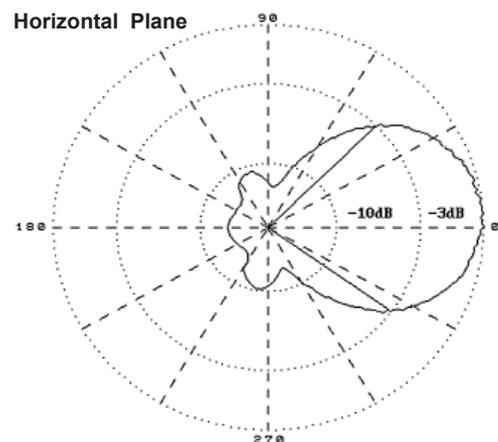
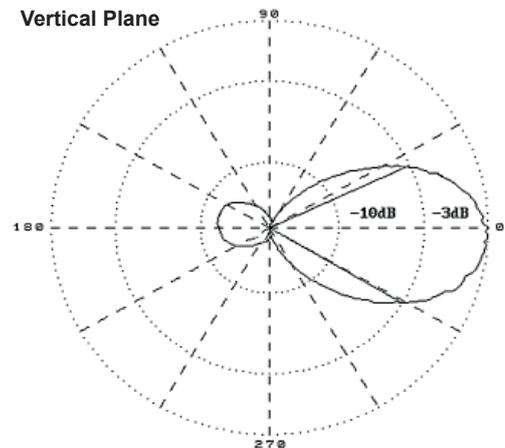
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole on master tube (mm)	30 ÷ 62	
Radiator Coverage	Fiberglass	
Boom material	Anodized Aluminium	
Elements material	Anodized Aluminium	
Wind resistance (km/h)	120	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	1300 x 1045	
Weight (kg)	2.8	

Radiation Patterns



DIRECTIONAL ANTENNAS



We reserve the right to modify these data without any notice



YAGI 8 ELEMENTS UHF ANTENNA

345 ÷ 365 MHz

SY 153

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

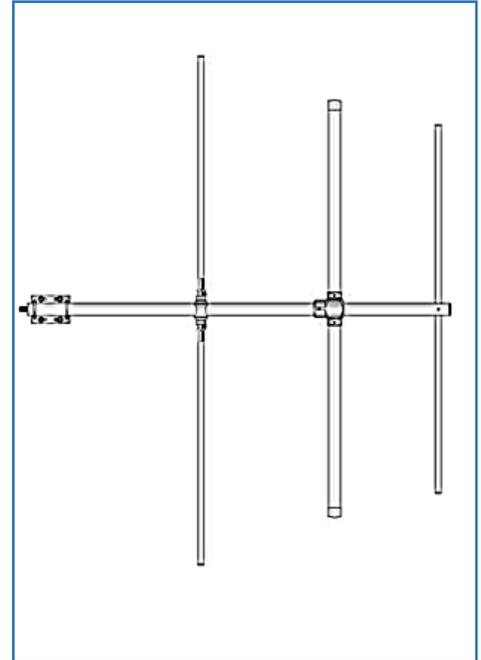
Electrical Specifications

Type	Yagi 3 elements	
Frequency Band (MHz)	144 ÷ 175	
Impedance (Ω)	50	
VSWR at resonant frequency	≤1.6	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	70
	Horizontal plane	140
Gain (dBd)	5.5	
Front to back Ratio (dBd)	>17	
Continuous Max Power (W)	200	

DESCRIPTION:

Yagi 3 elements antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.

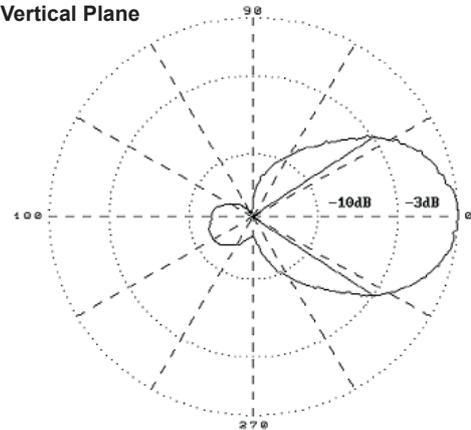


Mechanical Specifications

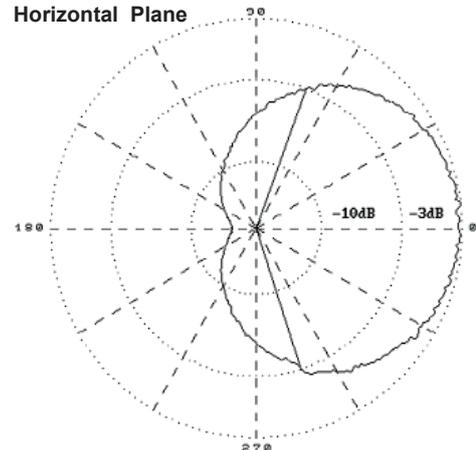
Type of connection	N female
Mounting hole on master tube (mm)	30 ÷ 62
Radiator Coverage	Fiberglass
Boom material	Anodized Aluminium
Elements material	Anodized Aluminium
Wind resistance (km/h)	120
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	1150 x 1100
Weight (kg)	3.6

Radiation Patterns

Vertical Plane



Horizontal Plane



We reserve the right to modify these data without any notice



YAGI 3 ELEMENTS VHF ANTENNA

146 ÷ 167 MHz

R-Y 313 NH

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

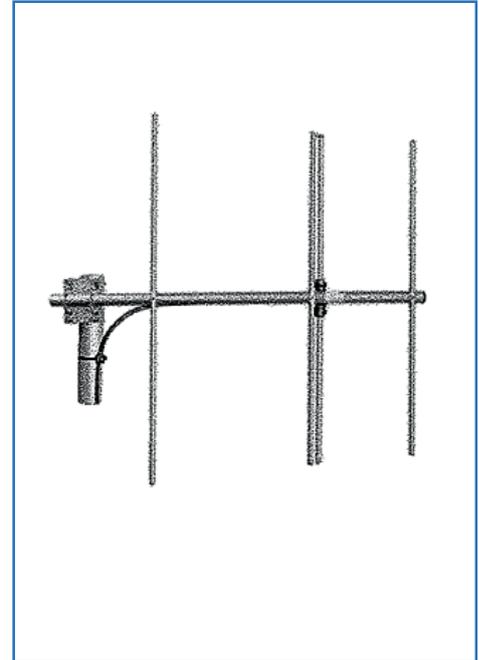
Electrical Specifications

Type	Yagi 3 elements	
Frequency Band (MHz)	146 ÷ 167	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	68
	Horizontal plane	120
Gain (dBd)	5	
Front to back Ratio (dBd)	> 16	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 3 elements antenna for VHF band.

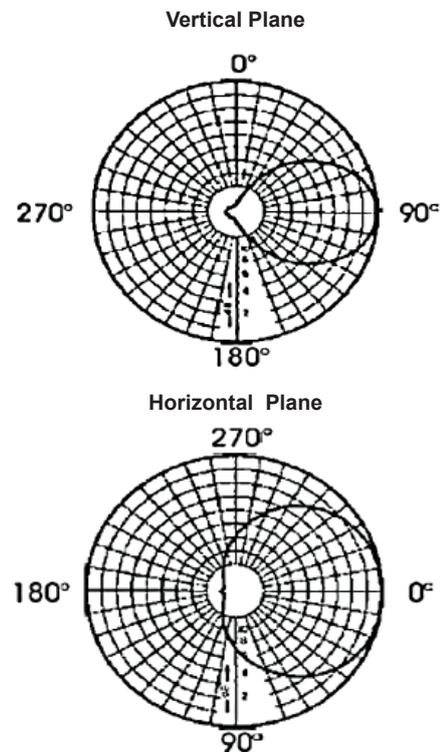
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Boom material	Aluminium alloy DIN 3.2315
Elements material	Aluminium alloy DIN 3.2306
Wind resistance (km/h)	160
Temperature range ($^{\circ}\text{C}$)	-35 ÷ +80
Dimensions (mm)	980 x 1215
Weight (kg)	2.7

Radiation Patterns



DIRECTIONAL ANTENNAS

By

We reserve the right to modify these data without any notice



YAGI 4 ELEMENTS VHF ANTENNA

146 ÷ 167 MHz

R-Y 413 NH

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Yagi 4 elements	
Frequency Band (MHz)	146 ÷ 167	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	60
	Horizontal plane	84
Gain (dBd)	7	
Front to back Ratio (dBd)	>17	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 4 elements antenna for VHF band.

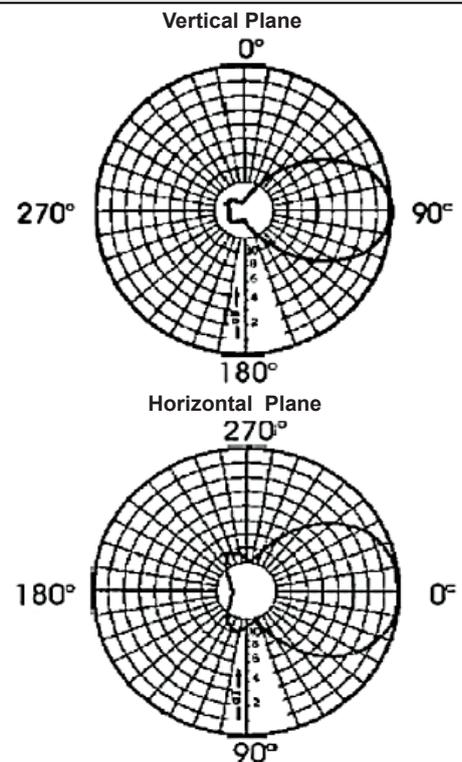
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Boom material	Aluminium alloy
	DIN 3.2315
Elements material	Aluminium alloy
	DIN 3.2306
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	980 x 1515
Weight (kg)	3.2

Radiation Patterns



By

We reserve the right to modify these data without any notice



YAGI 6 ELEMENTS VHF ANTENNA

146 ÷ 156 MHz

R-Y 610 NG

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

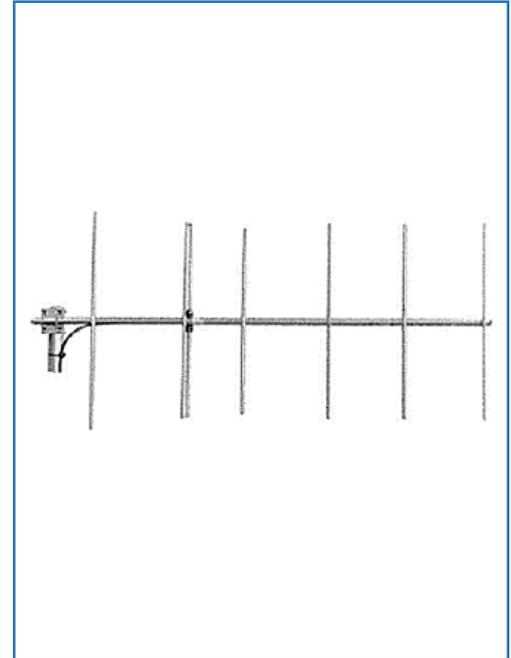
Electrical Specifications

Type	Yagi 6 elements	
Frequency Band (MHz)	146 ÷ 156	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	54
	Horizontal plane	72
Gain (dBd)	8	
Front to back Ratio (dBd)	> 23	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 6 elements antenna for VHF band.

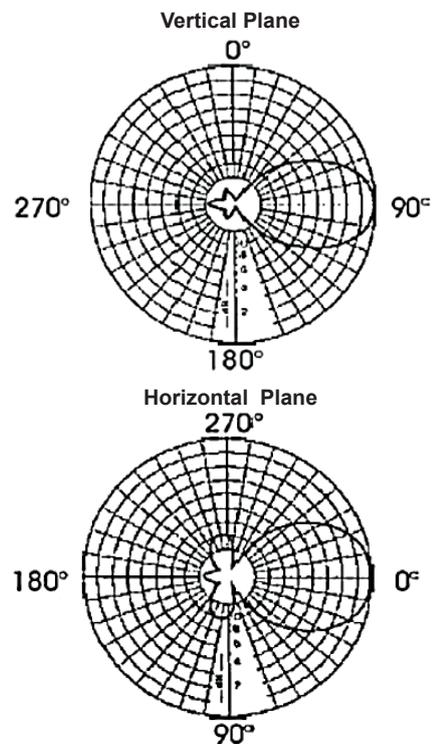
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	990 x 1915	
Weight (kg)	3.9	

Radiation Patterns



DIRECTIONAL ANTENNAS

By



We reserve the right to modify these data without any notice



YAGI 2 ELEMENTS VHF ANTENNA

149 ÷ 174 MHz

SY 152

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Yagi 2 elements	
Frequency Band (MHz)	149 ÷ 174	
Impedance (Ω)	50	
VSWR at resonant frequency	≤ 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	77
	Horizontal plane	190
Gain (dBd)	3	
Front to back Ratio (dBd)	>10	
Continuous Max Power (W)	200	

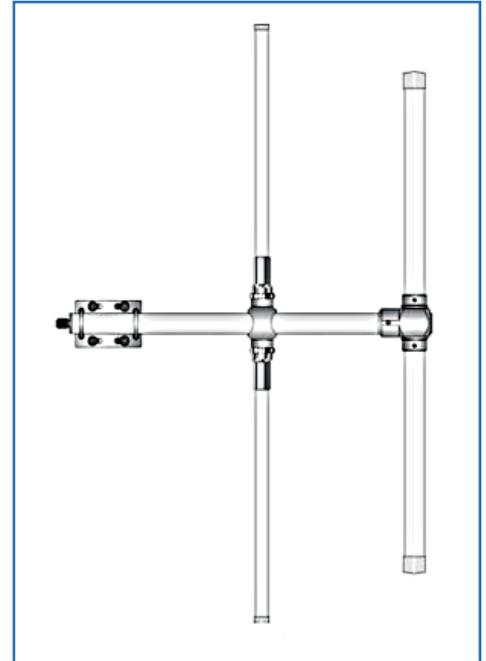
Mechanical Specifications

Type of connection	N female	
Mounting hole on master tube (mm)	30 ÷ 60	
Radiator Coverage	Fiberglass	
Boom material	Anodized	Aluminium
	Elements material	Anodized Aluminium
Wind resistance (km/h)	120	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	1150 x 790	
Weight (kg)	3.3	

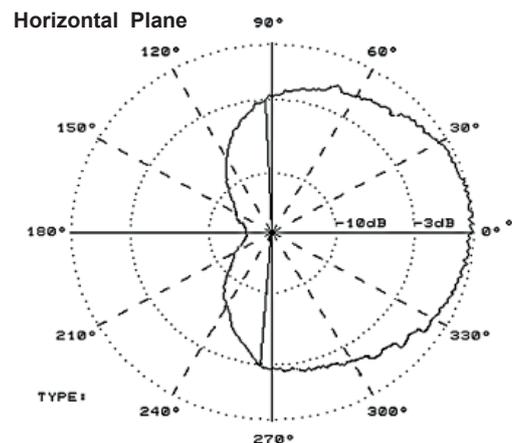
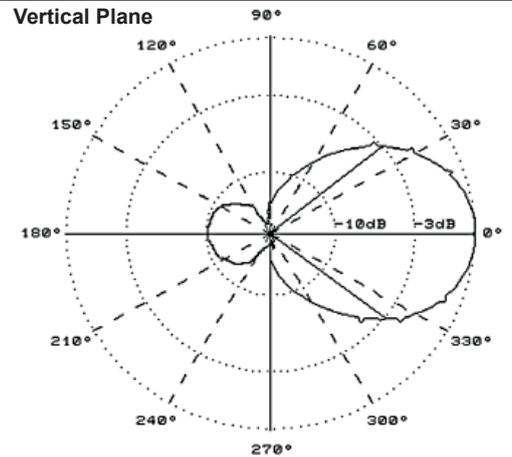
DESCRIPTION:

Yagi 2 elements antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.



Radiation Patterns



We reserve the right to modify these data without any notice



YAGI 2 ELEMENTS VHF ANTENNA

154 ÷ 174 MHz

R-Y 212 NH

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

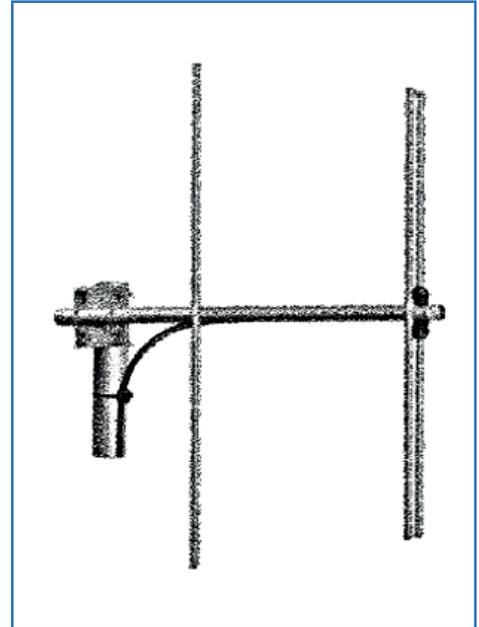
Electrical Specifications

Type	Yagi 2 elements	
Frequency Band (MHz)	154 ÷ 174	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	74
	Horizontal plane	170
Gain (dBd)	3	
Front to back Ratio (dBd)	>9	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 2 elements antenna for VHF band.

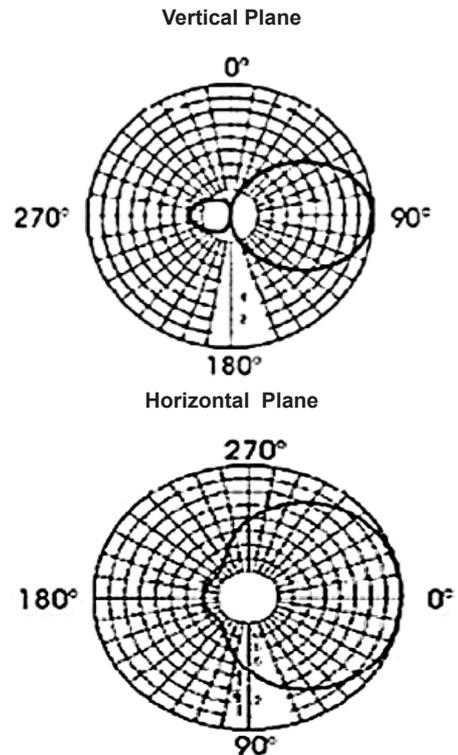
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	615 x 955	
Weight (kg)	2.3	

Radiation Patterns



DIRECTIONAL ANTENNAS

By

We reserve the right to modify these data without any notice



YAGI 3 ELEMENTS VHF ANTENNA

154 ÷ 174 MHz

R-Y 311 NH

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Yagi 3 elements	
Frequency Band (MHz)	154 ÷ 174	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	68
	Horizontal plane	120
Gain (dBd)	5	
Front to back Ratio (dBd)	> 16	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 3 elements antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.



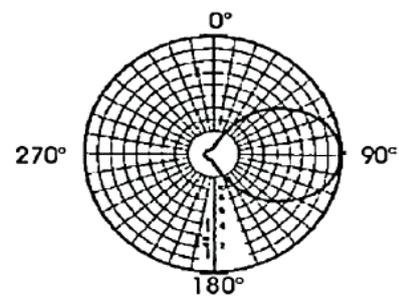
DIRECTIONAL ANTENNAS

Mechanical Specifications

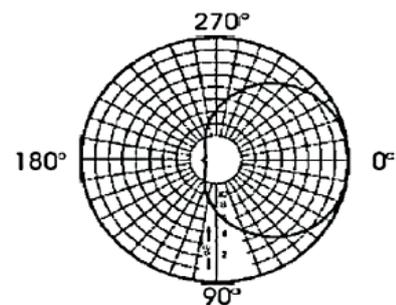
Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	910 x 1215	
Weight (kg)	2.9	

Radiation Patterns

Vertical Plane



Horizontal Plane



By



We reserve the right to modify these data without any notice



YAGI 4 ELEMENTS VHF ANTENNA

154 ÷ 174 MHz

R-Y 411 NH

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

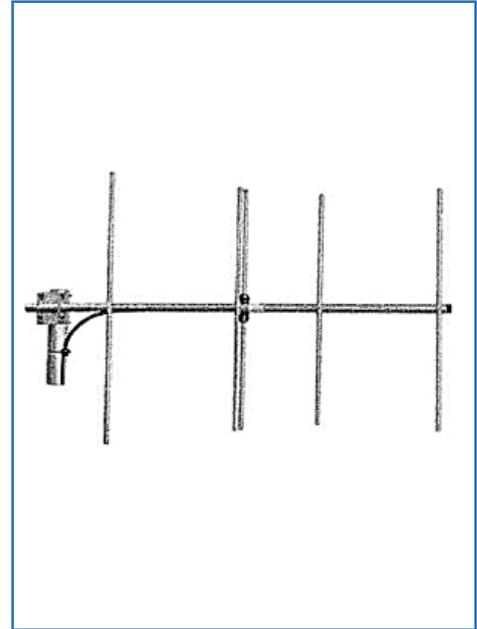
Electrical Specifications

Type	Yagi 4 elements	
Frequency Band (MHz)	154 ÷ 174	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	60
	Horizontal plane	84
Gain (dBd)	7	
Front to back Ratio (dBd)	>17	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 4 elements antenna for VHF band.

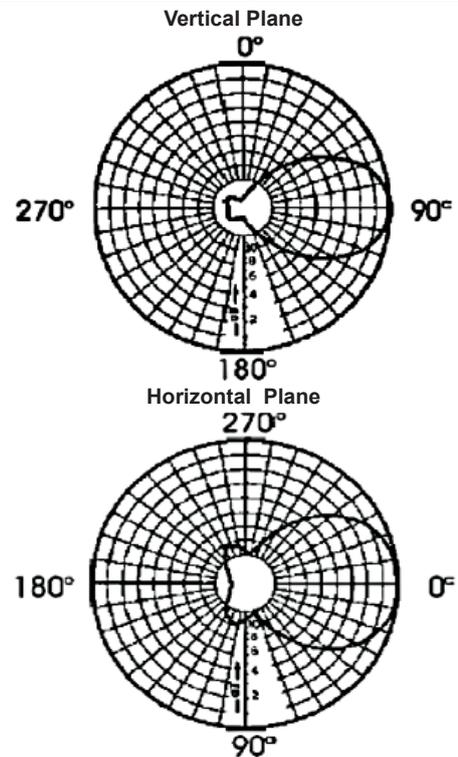
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	950 x 1515	
Weight (kg)	3.1	

Radiation Patterns



By RAC

We reserve the right to modify these data without any notice



YAGI 4 ELEMENTS VHF ANTENNA

156 ÷ 174 MHz

SY 154 H

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

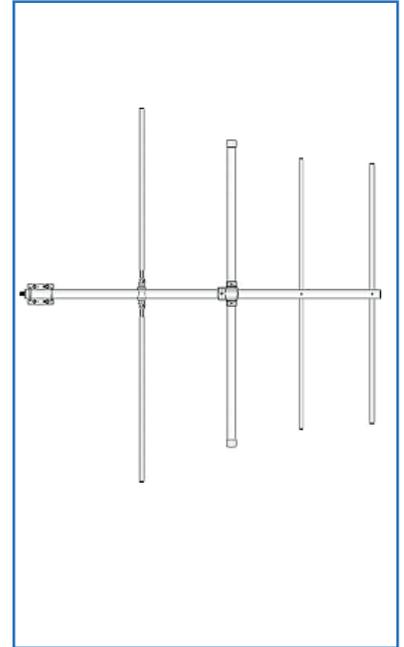
Electrical Specifications

Type	Yagi 4 elements	
Frequency Band (MHz)	156 ÷ 174	
Impedance (Ω)	50	
VSWR at resonant frequency	≤1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	78
	Horizontal plane	53
Gain (dBd)	7	
Front to back Ratio (dBd)	>14	
Continuous Max Power (W)	200	

DESCRIPTION:

Yagi 4 elements antennas for VHF band.

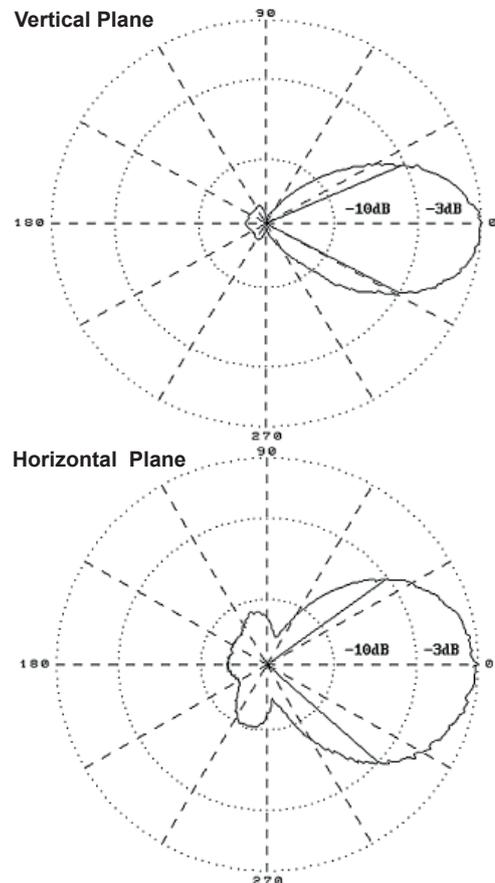
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female
Mounting hole on master tube (mm)	30 ÷ 62
Radiator Coverage	Fiberglass
Boom material	Anodized Aluminium
Elements material	Anodized Aluminium
Wind resistance (km/h)	120
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	1748 x 964
Weight (kg)	2.4

Radiation Patterns



We reserve the right to modify these data without any notice



YAGI 6 ELEMENTS VHF ANTENNA

164 ÷ 174 MHz

R-Y 610 NH

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

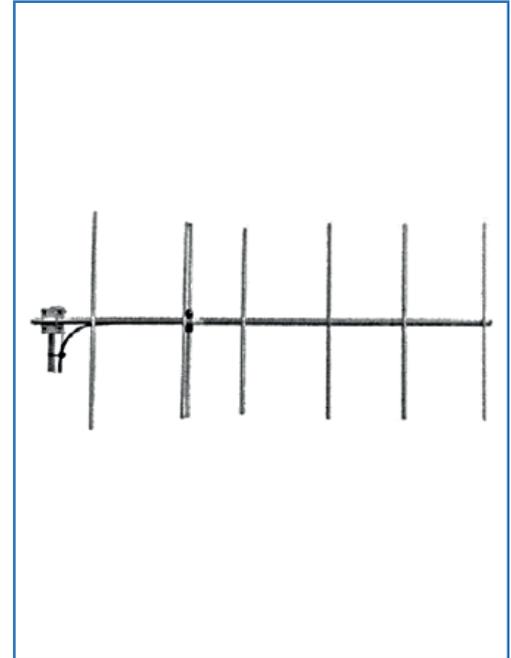
Electrical Specifications

Type	Yagi 6 elements	
Frequency Band (MHz)	164 ÷ 174	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	52
	Horizontal plane	64
Gain (dBd)	8	
Front to back Ratio (dBd)	>19	
Continuous Max Power (W)	150	

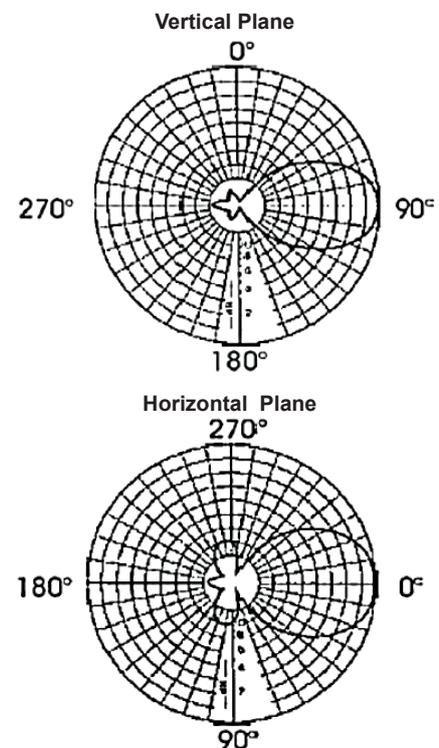
DESCRIPTION:

Yagi 6 elements antenna for VHF band.

All parts of the antenna are DC grounded from lightning protection.



Radiation Patterns



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	880 x 1805	
Weight (kg)	3.7	

DIRECTIONAL ANTENNAS

By



We reserve the right to modify these data without any notice



HALF WAVE CENTER FED DIPOLE UHF ANTENNA

350 ÷ 430 MHz

R-Y 011 NL

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

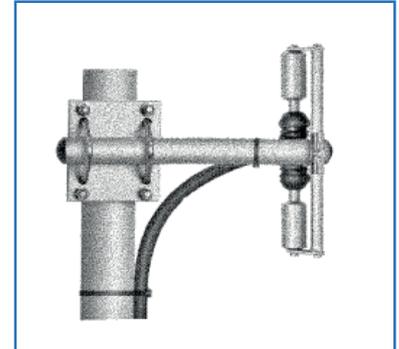
Electrical Specifications

Type	Half Wave Center Fed Dipole	
Frequency Band (MHz)	350 ÷ 430	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	74
	Horizontal plane	Omni
Gain (dBd)	3	
Continuous Max Power (W)	150	

DESCRIPTION:

Half wave center fed dipole antenna for UHF band.

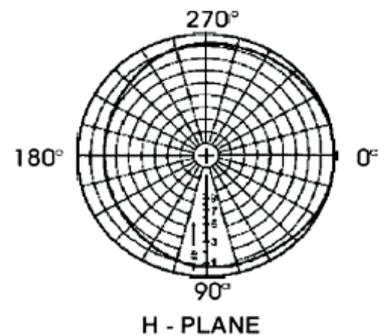
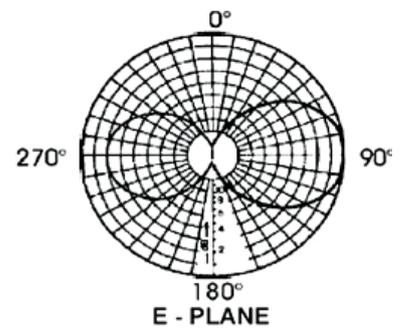
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm) on master tube	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	120	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	320 x 395	
Weight (kg)	1.9	

Radiation Patterns



By



We reserve the right to modify these data without any notice



YAGI 8 ELEMENTS UHF ANTENNA

345 ÷ 365 MHz

R-Y 810 NL

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

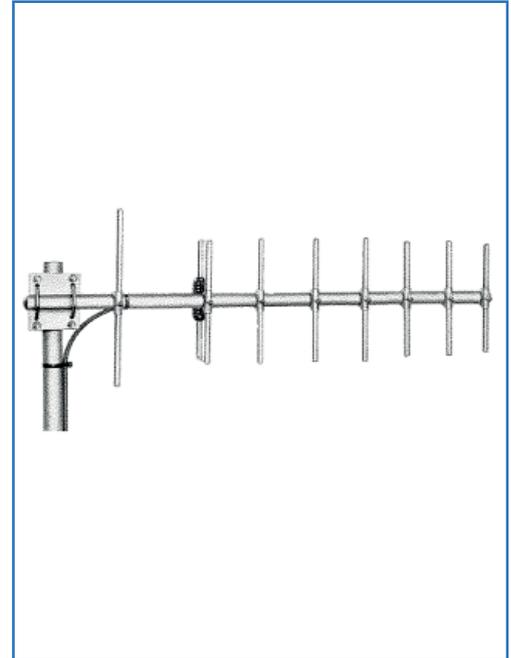
Electrical Specifications

Type	Yagi 8 elements	
Frequency Band (MHz)	345 ÷ 365	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	42
	Horizontal plane	47
Gain (dBd)	9	
Front to back Ratio (dBd)	> 20	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 8 elements antenna for UHF band.

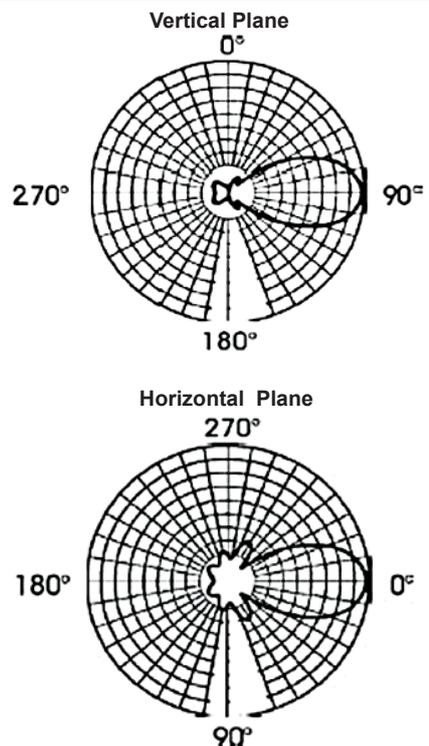
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	460 x 1650	
Weight (kg)	2.4	

Radiation Patterns



DIRECTIONAL ANTENNAS

By

We reserve the right to modify these data without any notice



YAGI 8 ELEMENTS UHF ANTENNA

380 ÷ 430 MHz

R-Y 811 NL

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

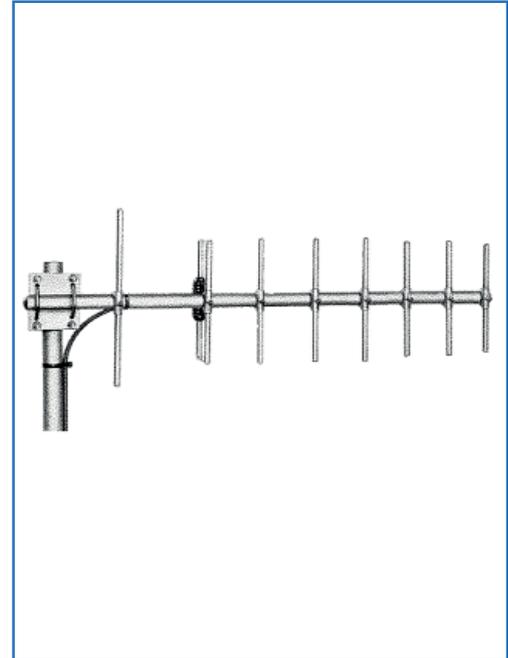
Electrical Specifications

Type	Yagi 8 elements	
Frequency Band (MHz)	380 ÷ 430	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	42
	Horizontal plane	48
Gain (dBd)	9	
Front to back Ratio (dBd)	>18	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 8 elements antenna for UHF band.

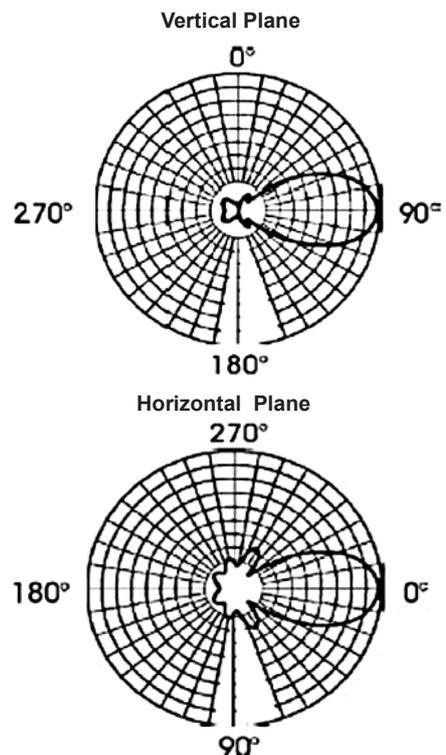
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Boom material	Aluminium alloy DIN 3.2315
Elements material	Aluminium alloy DIN 3.2306
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	405 x 1500
Weight (kg)	3.1

Radiation Patterns



By



We reserve the right to modify these data without any notice



YAGI 2 ELEMENTS WITH CORNER REFLECTOR UHF ANTENNA

R1C 010 NL

320 ÷ 470 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

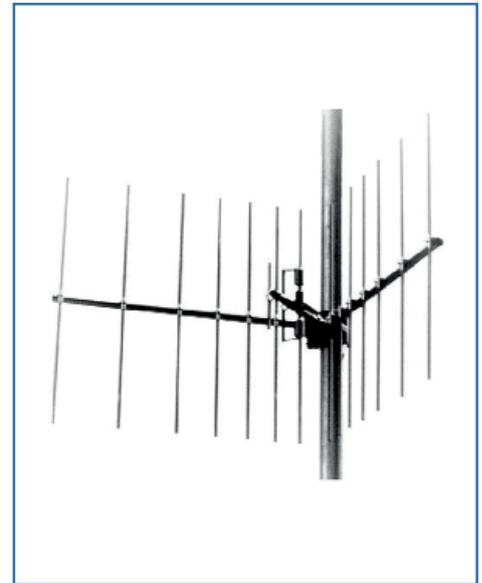
Electrical Specifications

Product	R1C 010 NL	
Type	Yagi 2 elements with corner reflector	
Frequency Band (MHz)	320 ÷ 470	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	vertical	
HPBW (deg)	Vertical plane	45
	Horizontal plane	40
Gain (dBd)	10	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 2 elements antenna with corner reflector for UHF band.

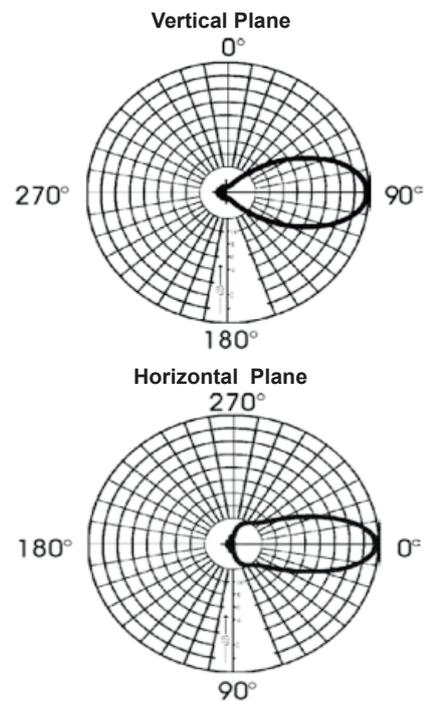
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Product	R1C 010 NL	
Type of connection	N female	
Mounting hole (mm)	60 ÷ 115	
Boom material	Aluminium SURTEC 650	
Elements material	Aluminium SURTEC 650	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	1100 x 1400 x 700	
Weight (kg)	9.3	

Radiation Patterns



DIRECTIONAL ANTENNAS

By

We reserve the right to modify these data without any notice



HALF WAVE CENTER FED DIPOLE UHF ANTENNA

400 ÷ 470 MHz

R-Y 010 NO

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

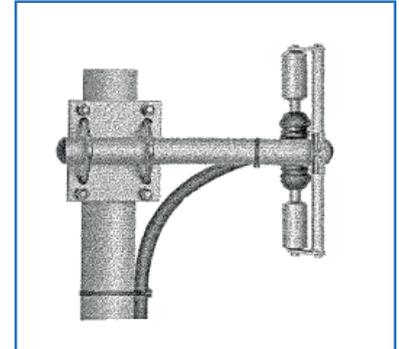
Electrical Specifications

Type	Half Wave Center Fed Dipole	
Frequency Band (MHz)	400 ÷ 470	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	74
	Horizontal plane	Omni
Gain (dBd)	3	
Continuous Max Power (W)	150	

DESCRIPTION:

Half wave center fed dipole antenna for UHF band.

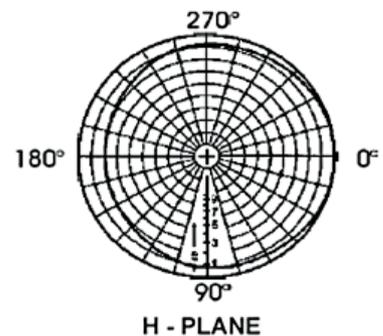
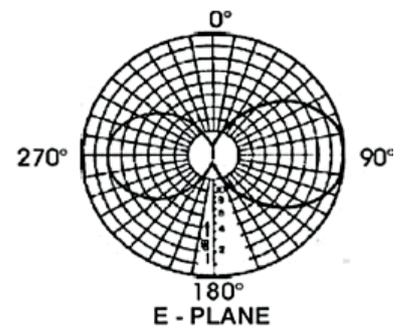
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm) on master tube	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	120	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	280 x 315	
Weight (kg)	1.8	

Radiation Patterns



By



We reserve the right to modify these data without any notice



YAGI 2 ELEMENTS UHF ANTENNA

400 ÷ 435 MHz

SY 452 L

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

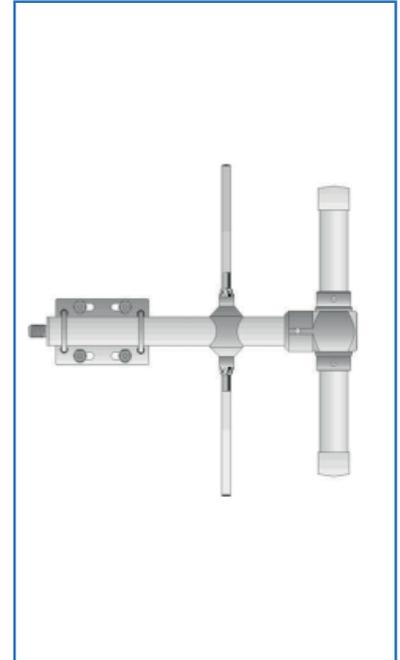
Electrical Specifications

Type	Yagi 2 elements	
Frequency Band (MHz)	400 ÷ 435	
Impedance (Ω)	50	
VSWR at resonant frequency	≤1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	75
	Horizontal plane	137
Gain (dBd)	3	
Front to back Ratio (dBd)	>11	
Continuous Max Power (W)	200	

DESCRIPTION:

Yagi 2 elements antenna for UHF band.

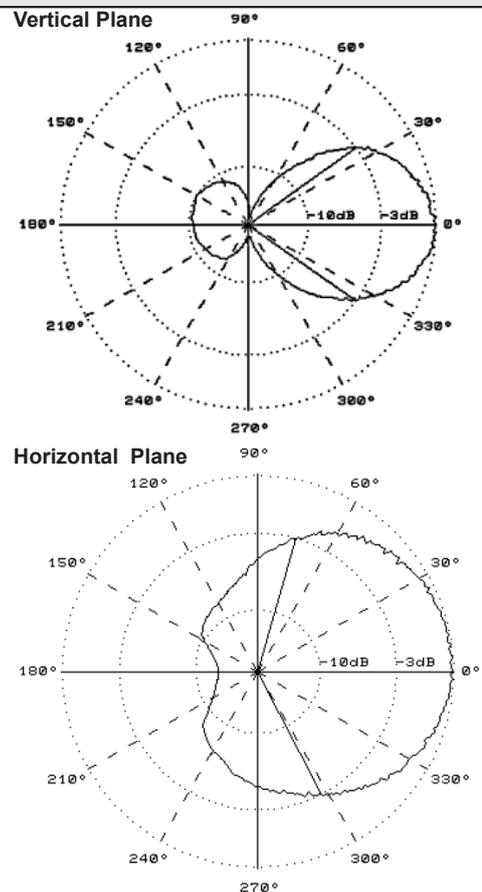
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female
Mounting hole on master tube (mm)	30 ÷ 62
Radiator Coverage	Fiberglass
Boom material	Anodized Aluminium
Elements material	Anodized Aluminium
Wind resistance (km/h)	120
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	500 x 450
Weight (kg)	2.0

Radiation Patterns



DIRECTIONAL ANTENNAS



We reserve the right to modify these data without any notice



YAGI 3 ELEMENTS UHF ANTENNA

400 ÷ 435 MHz

SY 453 L

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

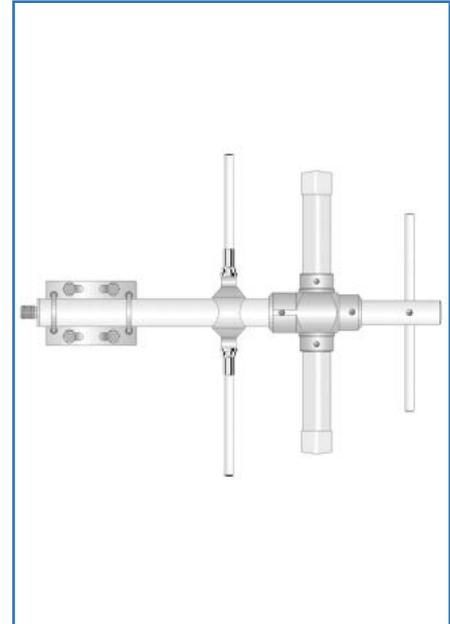
Electrical Specifications

Type	Yagi 3 elements
Frequency Band (MHz)	400 ÷ 435
Impedance (Ω)	50
VSWR at resonant frequency	<1:1.5
Polarization	vertical or horizontal
Beamwidth -3dB	H plane 68° - E plane 140°
Gain (dBd)	5.5
Continuous Max Power (W)	200

DESCRIPTION:

Yagi 3 elements antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection.

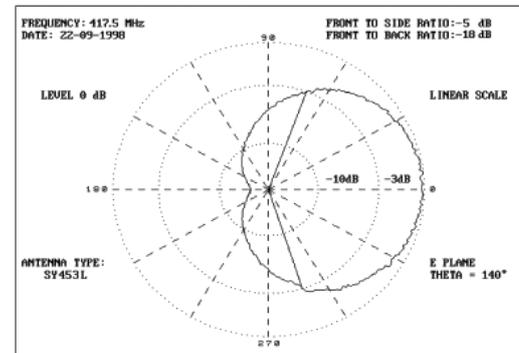


Mechanical Specifications

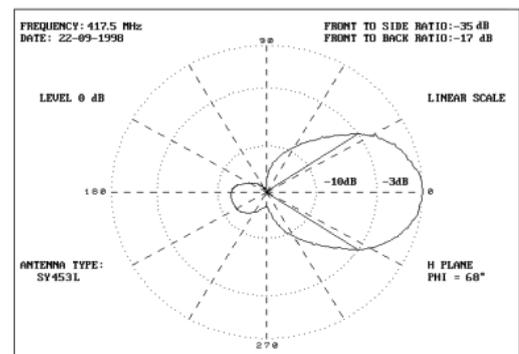
Type of connection	N female
Mounting hole on master tube (mm)	30 ÷ 62
Radiator Coverage	Fiberglass
Boom material	Anodized Aluminium
Elements material	Anodized Aluminium
Wind resistance (km/h)	120
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	630 x 410
Weight (kg)	2.0

Radiation Patterns

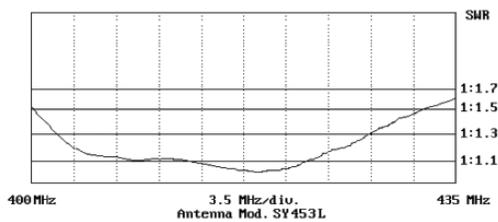
Vertical Plane



Horizontal Plane



VSWR



We reserve the right to modify these data without any notice



YAGI 3 ELEMENTS UHF ANTENNA

400 ÷ 470 MHz

R-Y 310 NO

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

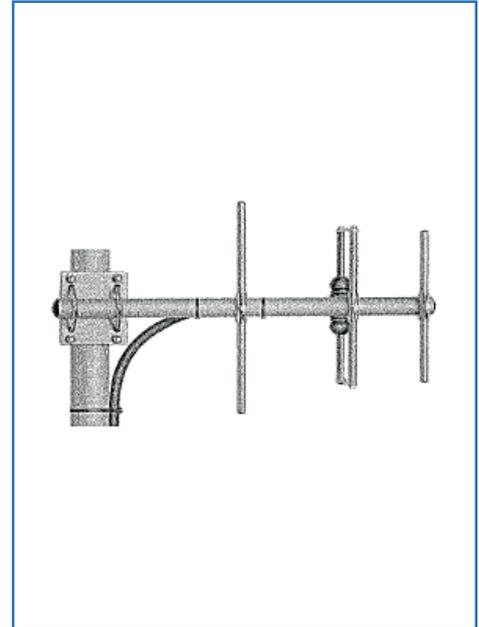
Electrical Specifications

Type	Yagi 3 elements	
Frequency Band (MHz)	400 ÷ 470	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	68
	Horizontal plane	116
Gain (dBd)	5	
Front to back Ratio (dBd)	>16	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 3 elements antenna for UHF band.

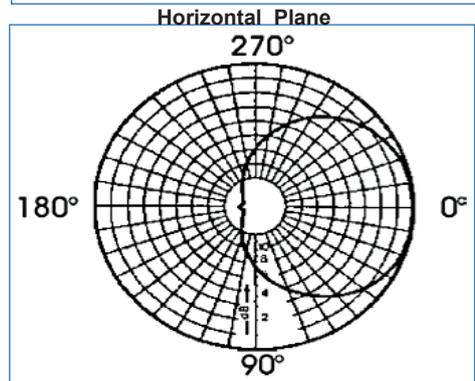
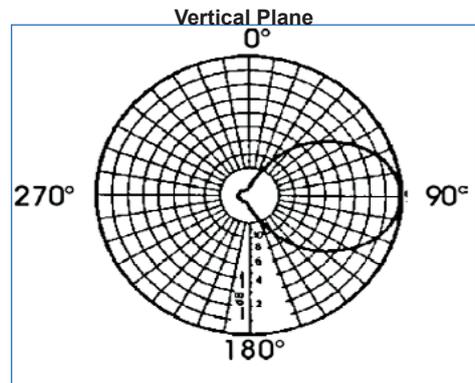
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	360 x 615	
Weight (kg)	2.0	

Radiation Patterns



DIRECTIONAL ANTENNAS

By 

We reserve the right to modify these data without any notice



YAGI 6 ELEMENTS UHF ANTENNA

400 ÷ 430 MHz

R-Y 613 NO

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

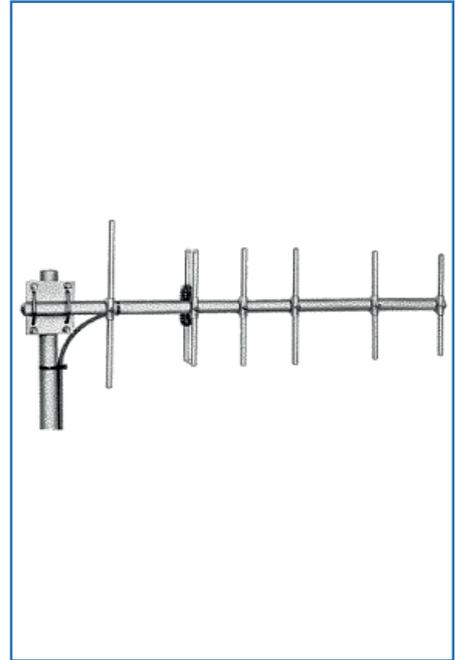
Electrical Specifications

Type	Yagi 6 elements	
Frequency Band (MHz)	400 ÷ 430	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	50
	Horizontal plane	60
Gain (dBd)	9.5	
Front to back Ratio (dBd)	> 15	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 6 elements antenna for UHF band.

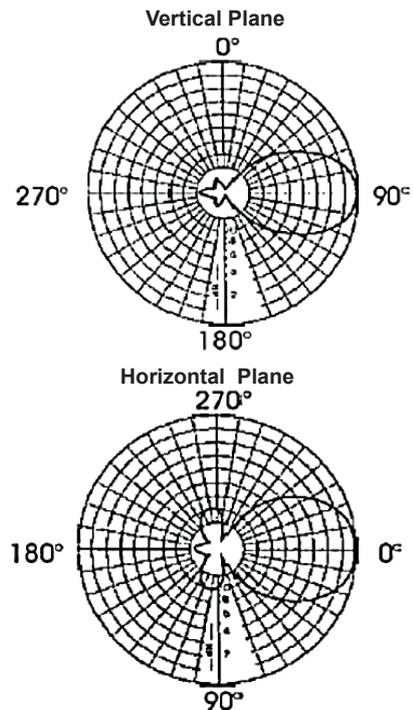
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	370 x 1400	
Weight (kg)	2.8	

Radiation Patterns



By

We reserve the right to modify these data without any notice



YAGI 6 ELEMENTS UHF ANTENNA

400 ÷ 445 MHz

R-Y 611 NO

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

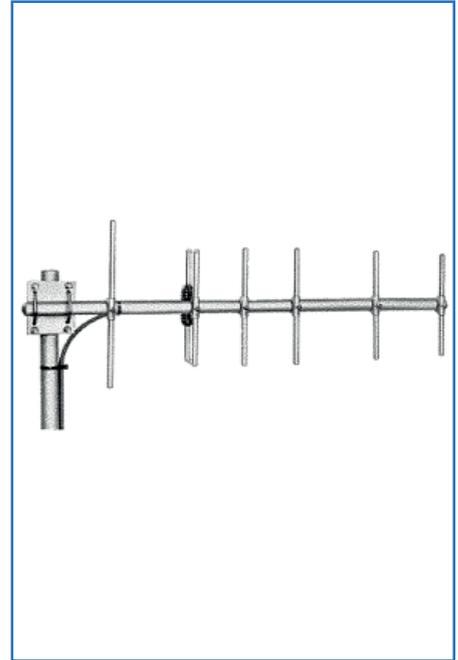
Electrical Specifications

Type	Yagi 6 elements	
Frequency Band (MHz)	400 ÷ 445	
Impedance (Ω)	50	
VSWR at resonant frequency	<1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	50
	Horizontal plane	60
Gain (dBd)	8.5	
Front to back Ratio (dBd)	>15	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 6 elements antenna for UHF band.

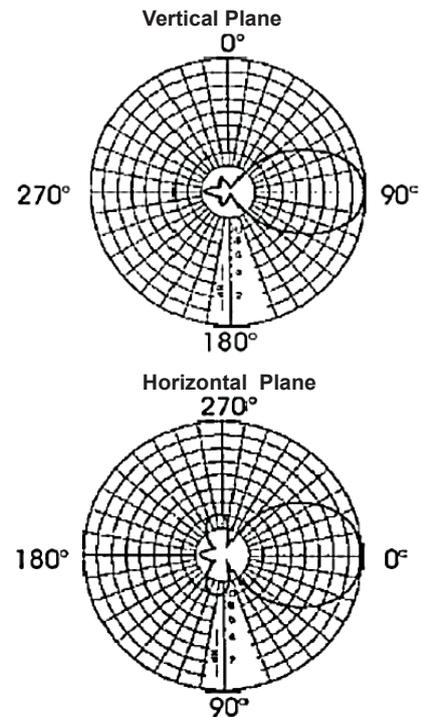
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	380 x 1215	
Weight (kg)	2.7	

Radiation Patterns



DIRECTIONAL ANTENNAS

By

We reserve the right to modify these data without any notice



YAGI 12 ELEMENTS UHF ANTENNA

400 ÷ 470 MHz

R1Y 210 NQ

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Product	R1Y 210 NQ	
Type	Yagi 12 elements	
Frequency Band (MHz)	400 ÷ 470	
Impedance (Ω)	50	
VSWR	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	40
	Horizontal plane	42
Gain (dBd)	11	
Front to back Ratio (dBd)	>22	
Continuous Max Power (W)	150	

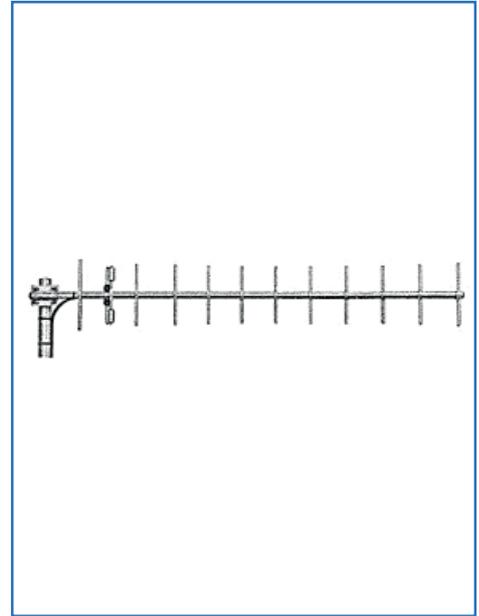
Mechanical Specifications

Product	R1Y 210 NQ
Type of connection	N female
Mounting hole (mm)	30 ÷ 60
Boom material	Aluminium alloy DIN 3.2315
Elements material	Aluminium alloy DIN 3.2306
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	360 x 1815
Weight (kg)	3.9

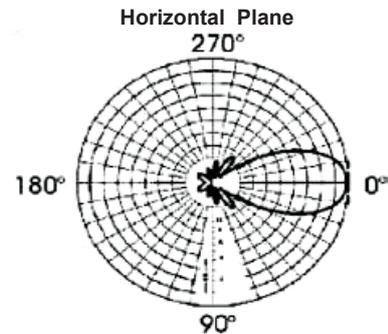
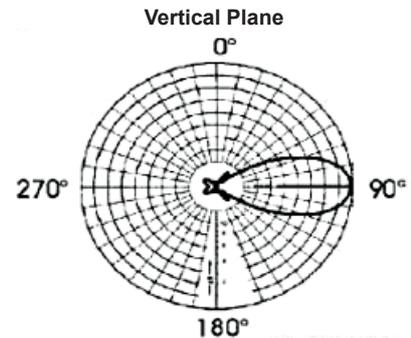
DESCRIPTION:

Yagi 12 elements antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection.



Radiation Patterns



By

We reserve the right to modify these data without any notice



YAGI 2 ELEMENTS UHF ANTENNA

435 ÷ 470 MHz

SY 452 H

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

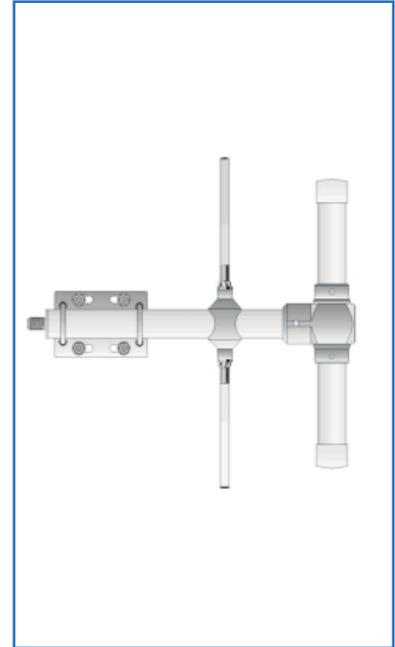
Electrical Specifications

Type	Yagi 2 elements	
Frequency Band (MHz)	435 ÷ 470	
Impedance (Ω)	50	
VSWR at resonant frequency	≤1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	75
	Horizontal plane	137
Gain (dBd)	3	
Front to back Ratio (dBd)	>11	
Continuous Max Power (W)	200	

DESCRIPTION:

Yagi 2 elements antenna for UHF band.

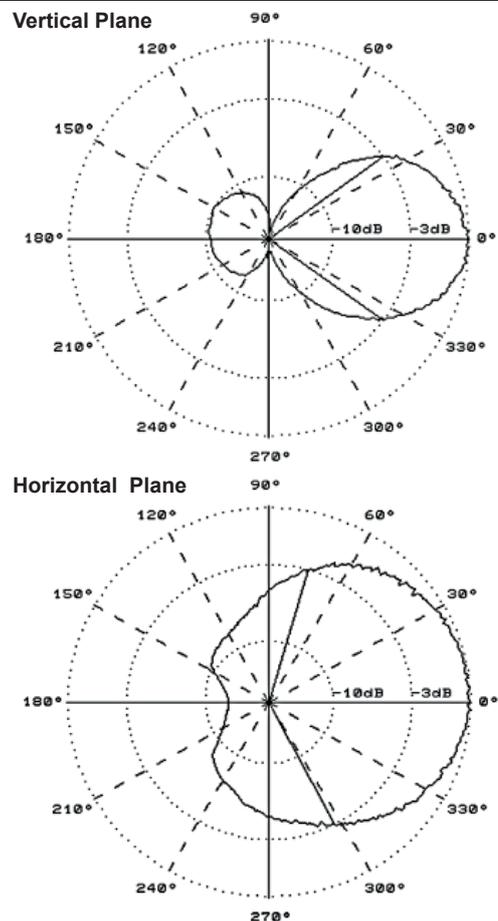
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole on master tube (mm)	30 ÷ 62	
Radiator Coverage	Fiberglass	
Boom material	Anodized	Aluminium
	Elements material	Anodized
Wind resistance (km/h)	120	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	500 x 450	
Weight (kg)	2.0	

Radiation Patterns



DIRECTIONAL ANTENNAS



We reserve the right to modify these data without any notice



YAGI 3 ELEMENTS UHF ANTENNA

435 ÷ 470 MHz

SY 453 H

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

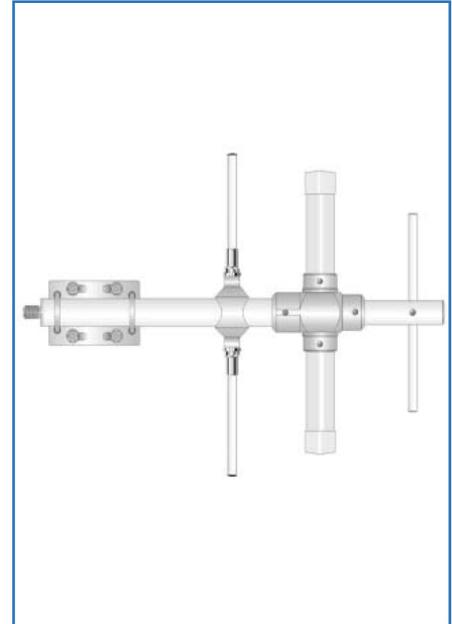
Electrical Specifications

Type	Yagi 3 elements
Frequency Band (MHz)	435 ÷ 470
Impedance (Ω)	50
VSWR at resonant frequency	<1:1.5
Polarization	vertical or horizontal
Beamwidth -3dB	H plane 68° - E plane 140°
Gain (dBd)	5.5
Continuous Max Power (W)	200

DESCRIPTION:

Yagi 3 elements antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection.

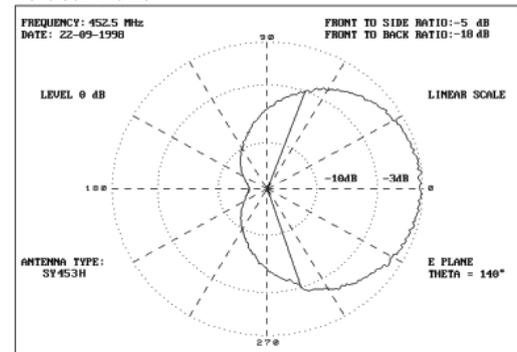


Mechanical Specifications

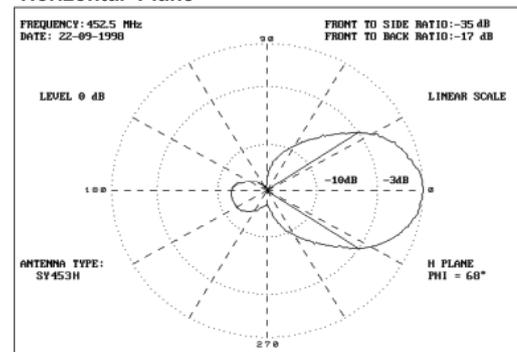
Type of connection	N female
Mounting hole on master tube (mm)	30 ÷ 62
Radiator Coverage	Fiberglass
Boom material	Anodized Aluminium
Elements material	Anodized Aluminium
Wind resistance (km/h)	120
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	630 x 410
Weight (kg)	2.0

Radiation Patterns

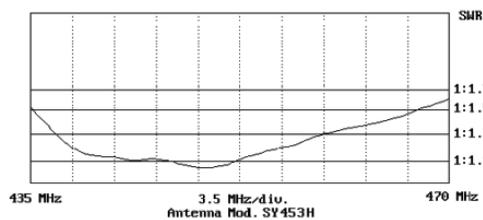
Vertical Plane



Horizontal Plane



VSWR



We reserve the right to modify these data without any notice



YAGI 6 ELEMENTS UHF ANTENNA

435 ÷ 470 MHz

R-Y 611 NZ

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

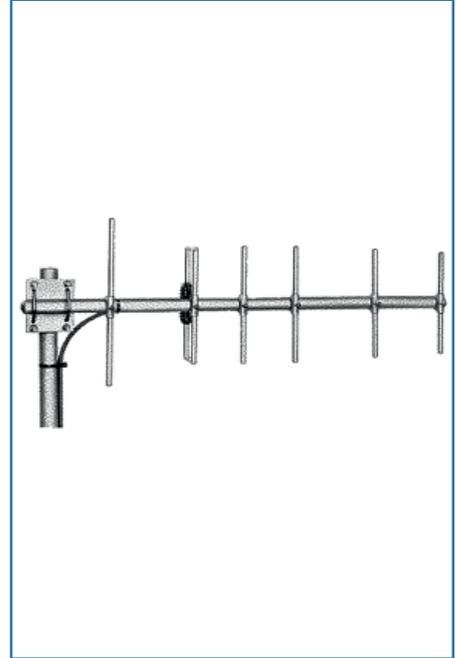
Electrical Specifications

Type	Yagi 6 elements	
Frequency Band (MHz)	435 ÷ 470	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	50
	Horizontal plane	60
Gain (dBd)	8	
Front to back Ratio (dBd)	> 15	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 6 elements antenna for UHF band.

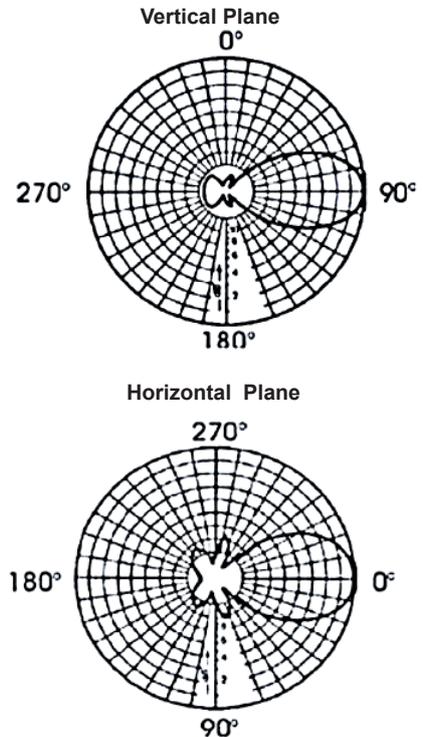
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Type of connection	N female	
Mounting hole (mm)	33 ÷ 60	
Boom material	Aluminium alloy DIN 3.2315	
Elements material	Aluminium alloy DIN 3.2306	
Wind resistance (km/h)	160	
Temperature range (°C)	-35 ÷ +80	
Dimensions (mm)	360 x 1015	
Weight (kg)	2.6	

Radiation Patterns



DIRECTIONAL ANTENNAS

By

We reserve the right to modify these data without any notice



YAGI 7 ELEMENTS UHF ANTENNA

450 ÷ 470 MHz

R-Y 710 NZ

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Type	Yagi 7 elements	
Frequency Band (MHz)	450 ÷ 470	
Impedance (Ω)	50	
VSWR at resonant frequency	< 1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	38
	Horizontal plane	42
Gain (dBd)	8	
Front to back Ratio (dBd)	>15	
Continuous Max Power (W)	150	

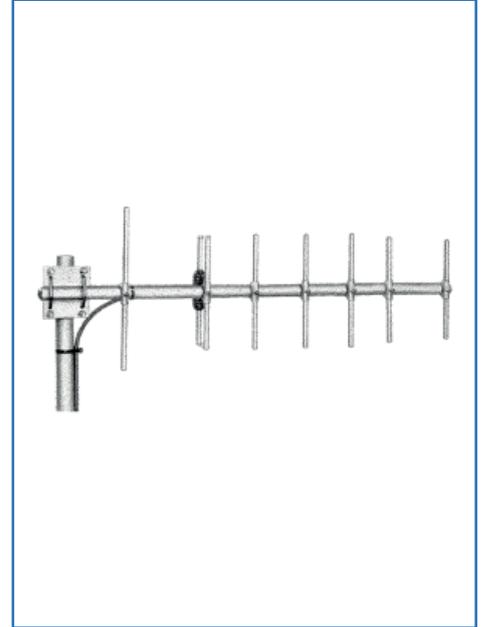
Mechanical Specifications

Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Boom material	Aluminium alloy DIN 3.2315
Elements material	Aluminium alloy DIN 3.2306
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	330 x 1500
Weight (kg)	2.9

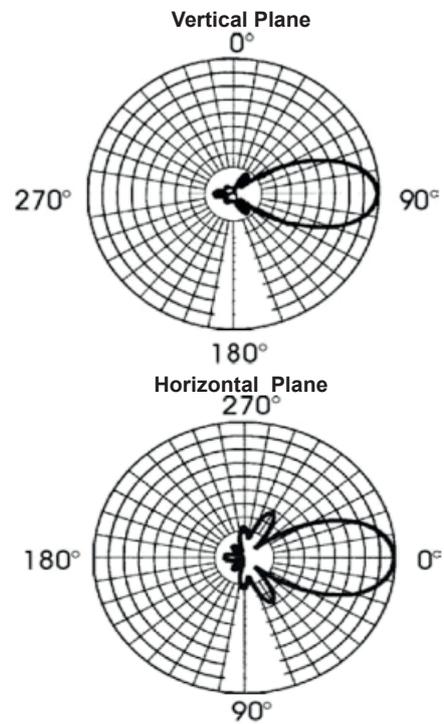
DESCRIPTION:

Yagi 7 elements antenna for UHF band.

All parts of the antenna are DC grounded from lightning protection.



Radiation Patterns



By RAC

We reserve the right to modify these data without any notice



YAGI 12 ELEMENTS UHF ANTENNA

450 ÷ 470 MHz

R1Y 210 NZ

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

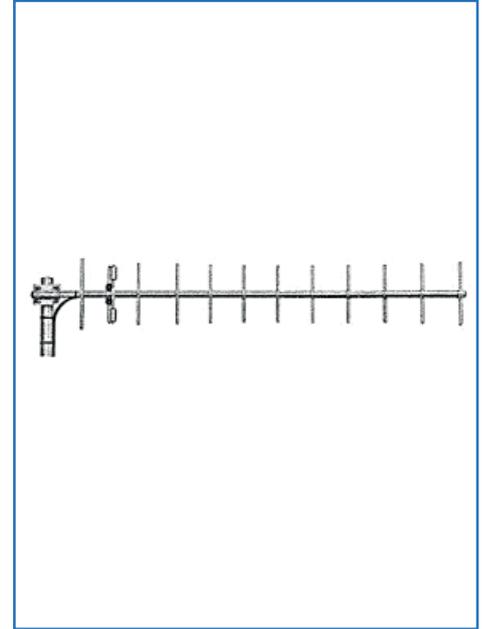
Electrical Specifications

Product	R1Y 210 NZ	
Type	Yagi 12 elements	
Frequency Band (MHz)	450 ÷ 470	
Impedance (Ω)	50	
VSWR	<1.5	
Polarization	vertical or horizontal	
HPBW (deg)	Vertical plane	38
	Horizontal plane	40
Gain (dBd)	11	
Front to back Ratio (dBd)	>18	
Continuous Max Power (W)	150	

DESCRIPTION:

Yagi 12 elements antenna for UHF band.

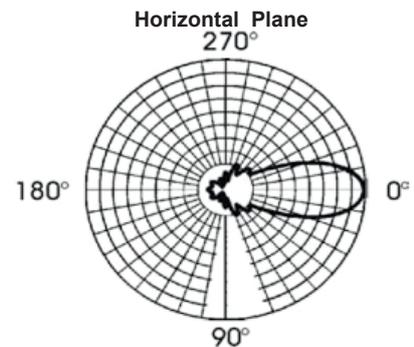
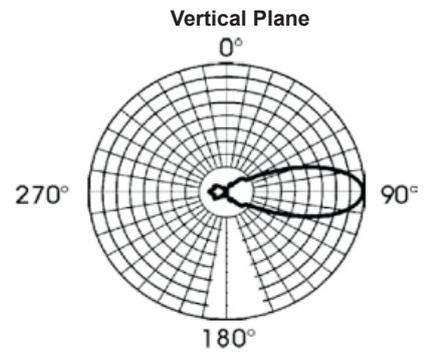
All parts of the antenna are DC grounded from lightning protection.



Mechanical Specifications

Product	R1Y 210 NZ
Type of connection	N female
Mounting hole (mm)	33 ÷ 60
Boom material	Aluminium alloy DIN 3.2315
Elements material	Aluminium alloy DIN 3.2306
Wind resistance (km/h)	160
Temperature range (°C)	-35 ÷ +80
Dimensions (mm)	325 x 1815
Weight (kg)	3.9

Radiation Patterns



DIRECTIONAL ANTENNAS

By



We reserve the right to modify these data without any notice



TETRACUBE PANEL X-POL ANTENNA

17400011

380 ÷ 470 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

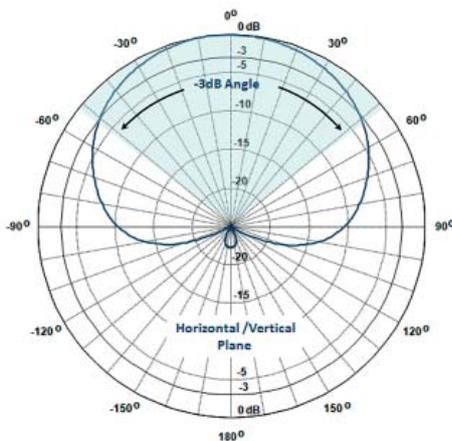
Electrical Specifications

Frequency Band VHF (MHz)	380 ÷ 470	
Impedance (Ω)	50	
VSWR	≤1.5	
Isolation between channels (dB)	>35	
Polarization (deg)	±45	
Gain (dBi)	2 x 5.5	
HPBW (deg)	Horizontal plane	105
	Vertical plane	105
Front-to-Back ratio (dB)	>27	
Electrical DownTilt (deg)	0	
Intermodulation 3 rd order (dBc)	<-150	
Max RF Power (W)	500	

Mechanical Specifications

Type of connections	2 x N female
Dimensions (mm) H/W/D	270 x 270 x 192
Wind load (N) @ 150 km/h	Frontal / Lateral / Re- arside
	100 / 95 / 110
Temperature range (°C)	-40 ÷ + 70
Total weight (kg)	2.4

Radiation Pattern



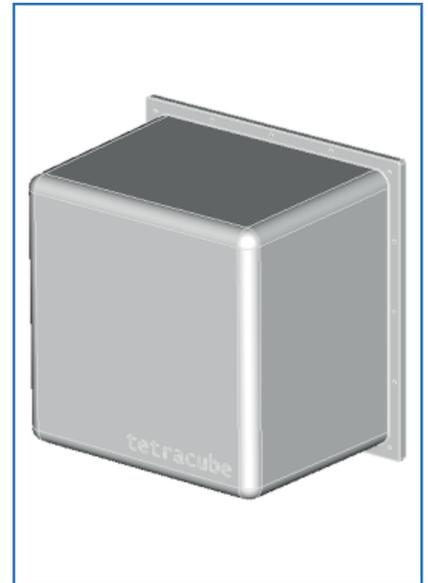
DESCRIPTION:

TETRACUBE panel X-pol antenna.

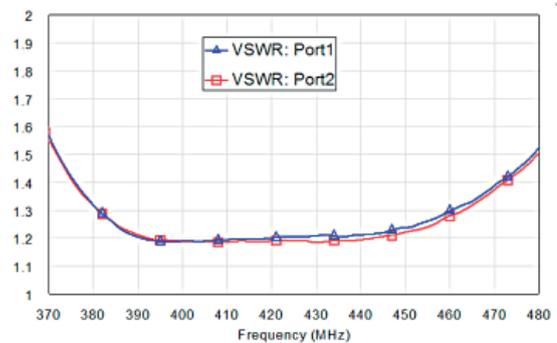
Two inputs, wide HPBW angle and low Front-to-Back ratio.
Reduced dimensions, light weight and very rugged radome.
High maximum input power.
No ground plane needed.

Designed to operate on the environmental conditions as described in ETS 300 019-1-4.

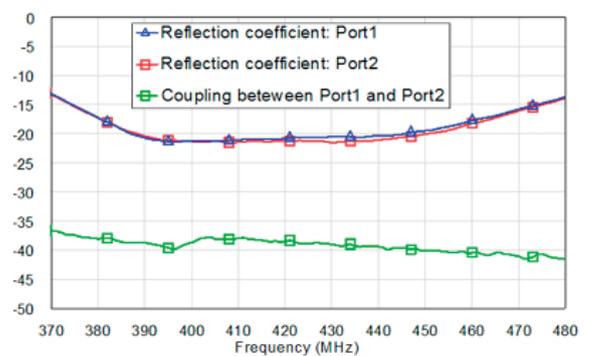
DC grounded from lightning protections.



VSWR



Scattering Parameters





TETRACUBE PANEL X-POL ANTENNA CONFIGURATION 2X1

17400021

380 ÷ 470 MHz

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band VHF (MHz)	380 ÷ 470	
Impedance (Ω)	50	
VSWR	≤ 1.5	
Isolation between channels (dB)	> 25	
Polarization (deg)	± 45	
Gain (dBi)	2 x 9.2	
HPBW (deg)	Horizontal plane	105
	Vertical plane	38
Front-to-Back ratio (dB)	> 27	
Electrical DownTilt (deg)	0	
Intermodulation 3 rd order (dBc)	< -150	
Max RF Power (W)	500	

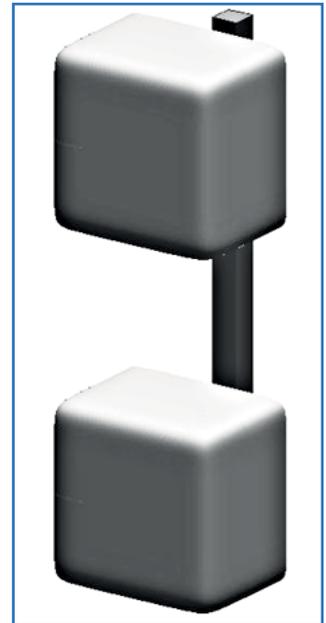
DESCRIPTION:

TETRACUBE panel X-pol antennas in array configuration for 2x1 elements.

Two inputs, wide HPBW angle and low Front-to-Back ratio. Reduced dimensions, light weight and very rugged radome. High maximum input power. No ground plane needed.

Designed to operate on the environmental conditions as described in ETS 300 019-1-4.

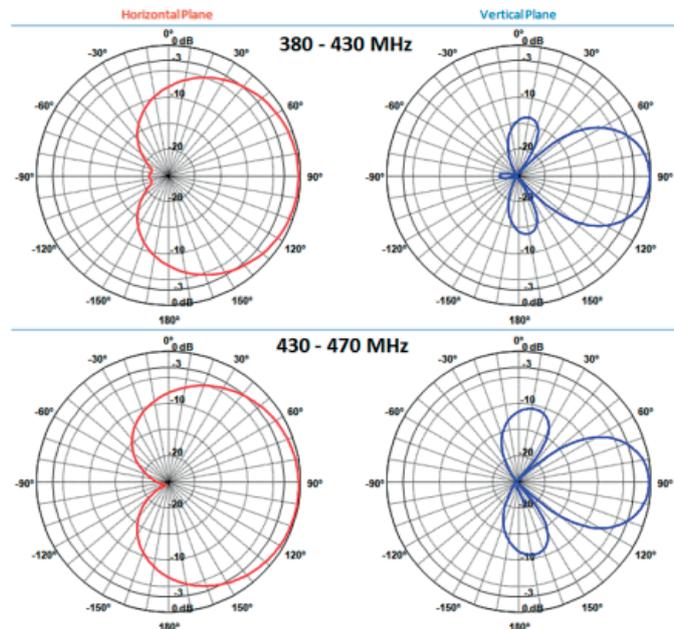
DC grounded from lightning protections.



Mechanical Specifications

Type of connections	2 x 7/16 female	
Dimensions (mm) H/W/D	1030 x 270 x 192	
Wind load (N) @ 150 km/h	Frontal / Lateral / Rearside	
		230 / 190 / 250
Temperature range ($^{\circ}\text{C}$)	$-40 \div + 70$	
Total weight (kg)	7.5	

Radiation Patterns



PANEL ANTENNAS

By



We reserve the right to modify these data without any notice



TETRACUBE PANEL X-POL ANTENNA CONFIGURATION 3X1

17400031

380 ÷ 470 MHz

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band VHF (MHz)	380 ÷ 470	
Impedance (Ω)	50	
VSWR	≤1.5	
Isolation between channels (dB)	>20	
Polarization (deg)	±45	
Gain (dBi)	2 x 11	
HPBW (deg)	Horizontal plane	105
	Vertical plane	24
Front-to-Back ratio (dB)	>27	
Electrical DownTilt (deg)	0	
Intermodulation 3 rd order (dBc)	<-150	
Max RF Power (W)	500	

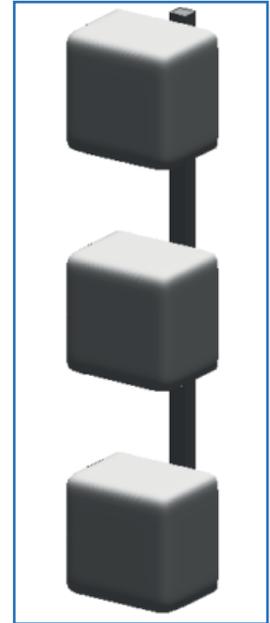
DESCRIPTION:

TETRACUBE panel X-pol antennas in array configuration for 3x1 elements.

Two inputs, wide HPBW angle and low Front-to-Back ratio. Reduced dimensions, light weight and very rugged radome. High maximum input power. No ground plane needed.

Designed to operate on the environmental conditions as described in ETS 300 019-1-4.

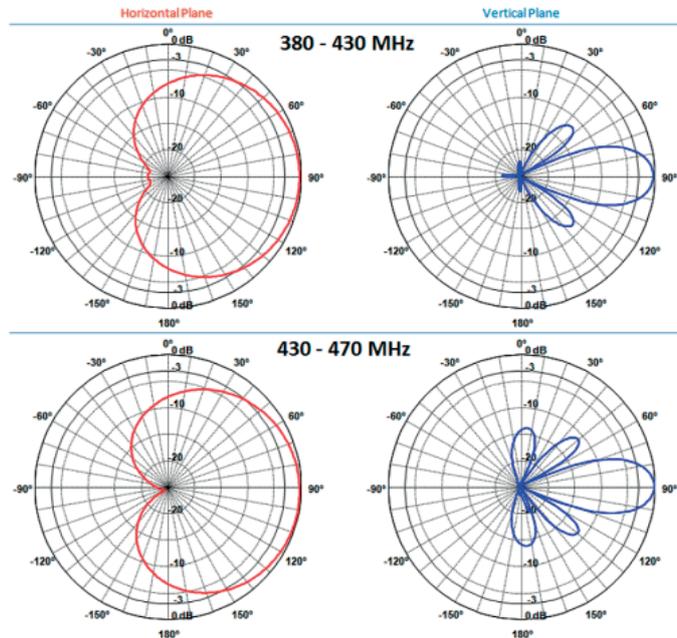
DC grounded from lightning protections.



Mechanical Specifications

Type of connections	2 x7/16 female	
Dimensions (mm) H/W/D	1580 x 270 x 192	
Wind load (N) @ 150 km/h	Frontal / Lateral / Rearside	
		320 / 280 / 340
Temperature range (°C)	-40 ÷ + 70	
Total weight (kg)	11	

Radiation Patterns





TETRACUBE PANEL X-POL ANTENNA CONFIGURATION 4X1

17400041

380 ÷ 470 MHz

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band VHF (MHz)	380 ÷ 470	
Impedance (Ω)	50	
VSWR	≤1.5	
Isolation between channels (dB)	>20	
Polarization (deg)	±45	
Gain (dBi)	2 x 12.5	
HPBW (deg)	Horizontal plane	105
	Vertical plane	18
Front-to-Back ratio (dB)	>27	
Electrical DownTilt (deg)	0	
Intermodulation 3 rd order (dBc)	<-150	
Max RF Power (W)	500	

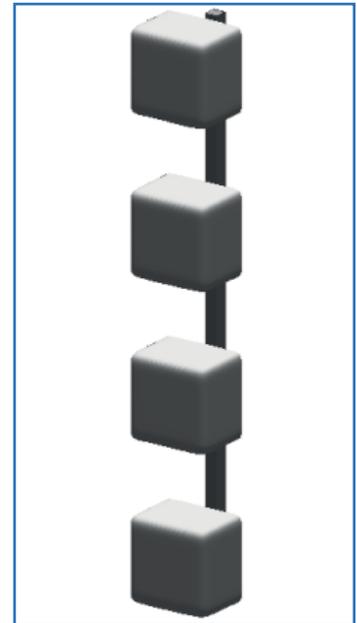
DESCRIPTION:

TETRACUBE panel X-pol antennas in array configuration for 4x1 elements.

Two inputs, wide HPBW angle and low Front-to-Back ratio. Reduced dimensions, light weight and very rugged radome. High maximum input power. No ground plane needed.

Designed to operate on the environmental condition as described in ETS 300 019-1-4.

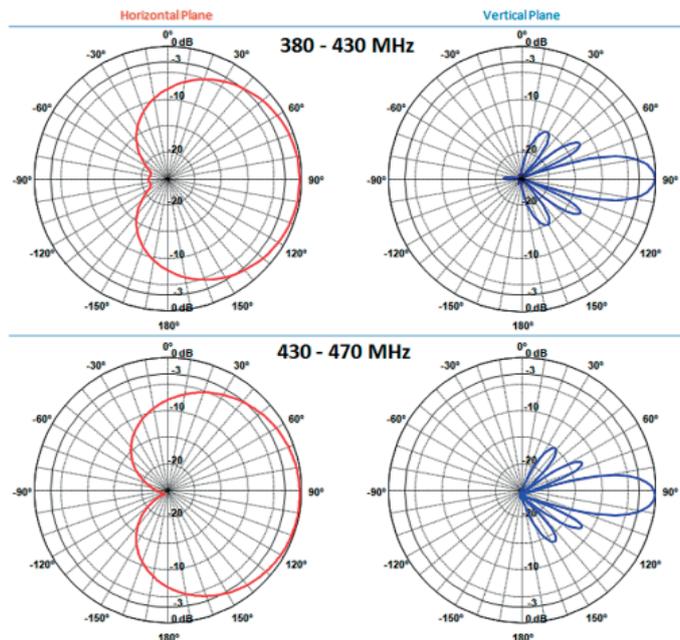
DC grounded from lightning protections.



Mechanical Specifications

Type of connections	2 x7/16 female	
Dimensions (mm) H/W/D	2130 x 270 x 192	
Wind load (N) @ 150 km/h	Frontal / Lateral / Rearside	
		460 / 420 / 500
Temperature range (°C)	-40 ÷ + 70	
Total weight (kg)	14.5	

Radiation Patterns



PANEL ANTENNAS



We reserve the right to modify these data without any notice



TETRACUBE PANEL X-POL ANTENNA CONFIGURATION 2X2

380 ÷ 470 MHz

17400022

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band VHF (MHz)	380 ÷ 470	
Impedance (Ω)	50	
VSWR	≤1.5	
Isolation between channels (dB)	>25	
Polarization (deg)	±45	
Gain (dBi)	2 x 12.8	
HPBW (deg)	Horizontal plane	42
	Vertical plane	38
Front-to-Back ratio (dB)	>27	
Electrical DownTilt (deg)	0	
Intermodulation 3 rd order (dBc)	<-150	
Max RF Power (W)	500	

DESCRIPTION:

TETRACUBE panel X-pol antennas in array configuration for 2x2 elements.

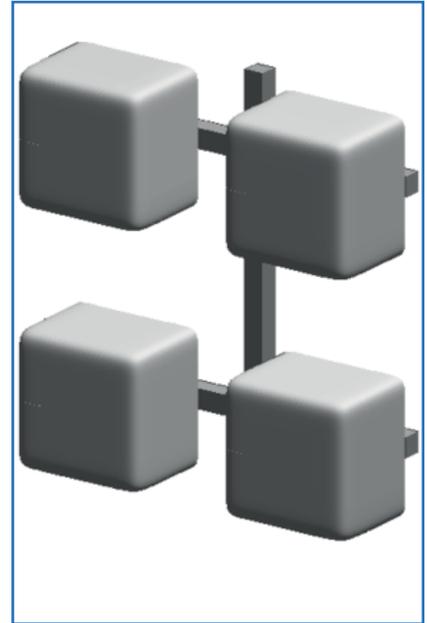
Two inputs, wide HPBW angle and low Front-to-Back ratio.

Reduced dimensions, light weight and very rugged radome.

High maximum input power. No ground plane needed.

Designed to operate on the environmental conditions as described in ETS 300 019-1-4.

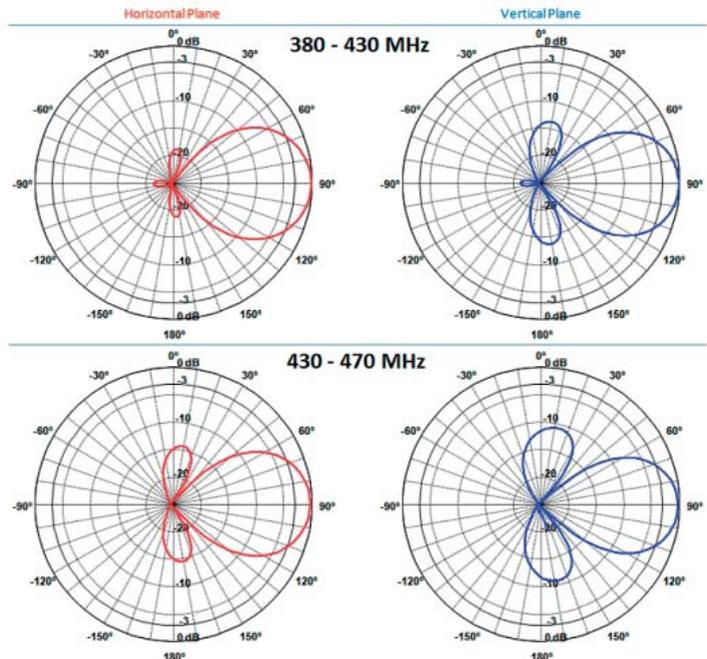
DC grounded from lightning protections.



Mechanical Specifications

Type of connections	2 x 7/16 female	
Dimensions (mm) H/W/D	1030 x 720 x 192	
Wind load (N) @ 150 km/h	Frontal / Lateral / Rearside	
		480 / 380 / 510
Temperature range (°C)	-40 ÷ + 70	
Total weight (kg)	17	

Radiation Patterns





TETRACUBE PANEL X-POL ANTENNA CONFIGURATION 3X2

17400032

380 ÷ 470 MHz

TEDAP offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band VHF (MHz)	380 ÷ 470	
Impedance (Ω)	50	
VSWR	≤1.5	
Isolation between channels (dB)	>25	
Polarization (deg)	±45	
Gain (dBi)	2 x 14.5	
HPBW (deg)	Horizontal plane	42
	Vertical plane	24
Front-to-Back ratio (dB)	>27	
Electrical DownTilt (deg)	0	
Intermodulation 3 rd order (dBc)	<-150	
Max RF Power (W)	500	

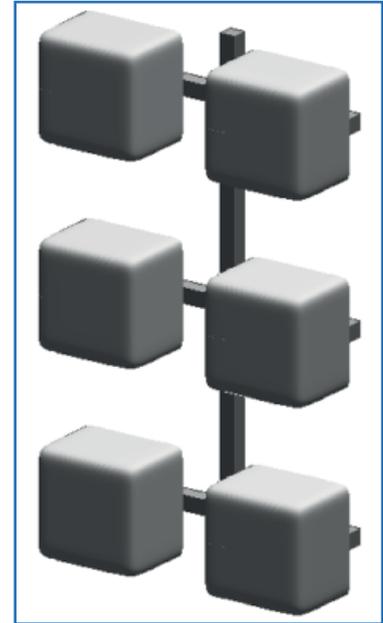
DESCRIPTION:

TETRACUBE panel X-pol antennas in array configuration for 3x2 elements.

Two inputs, wide HPBW angle and low Front-to-Back ratio. Reduced dimensions, light weight and very rugged radome. High maximum input power. No ground plane needed.

Designed to operate on the environmental conditions as described in ETS 300 019-1-4.

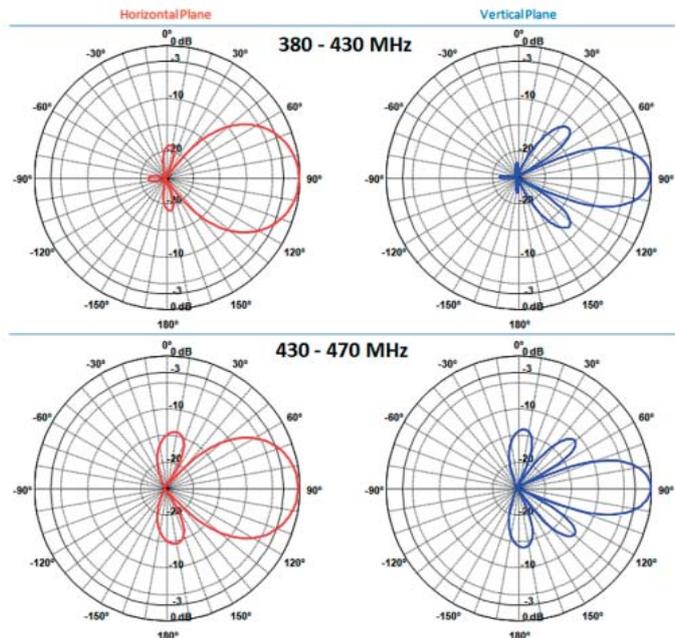
DC grounded from lightning protections.



Mechanical Specifications

Type of connections	2 x7/16 female	
Dimensions (mm) H/W/D	1370 x 720 x 192	
Wind load (N) @ 150 km/h	Frontal / Lateral / Rearside	
		660 / 300 / 700
Temperature range (°C)	-40 ÷ + 70	
Total weight (kg)	24.5	

Radiation Patterns



PANEL ANTENNAS



We reserve the right to modify these data without any notice



TETRACUBE PANEL X-POL ANTENNA CONFIGURATION 4X2

17400042

380 ÷ 470 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band VHF (MHz)	380 ÷ 470	
Impedance (Ω)	50	
VSWR at resonant frequency	≤1.5	
Isolation between channels (dB)	>25	
Polarization (deg)	±45	
Gain (dBi)	2 x 16	
HPBW (deg)	Horizontal plane	42
	Vertical plane	18
Front-to-Back ratio (dB)	>27	
Electrical DownTilt (deg)	0	
Intermodulation 3 rd order (dBc)	<-150	
Max RF Power (W)	500	

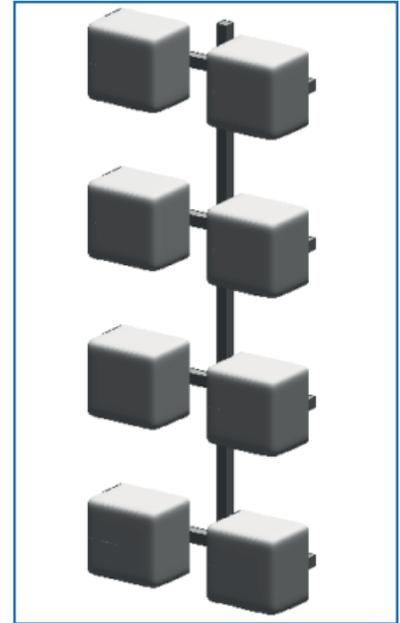
DESCRIPTION:

TETRACUBE panel X-pol antennas in array configuration for 4x2 elements.

Two inputs, wide HPBW angle and low Front-to-Back ratio. Reduced dimensions, light weight and very rugged radome. High maximum input power. No ground plane needed.

Designed to operate on the environmental conditions as described in ETS 300 019-1-4.

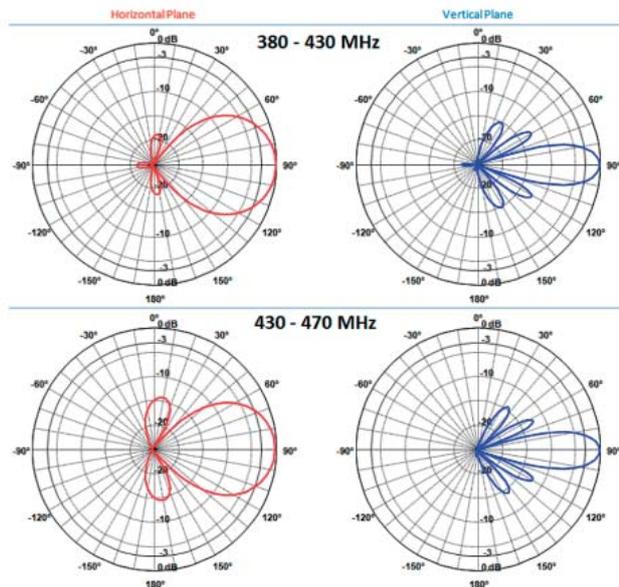
DC grounded from lightning protections.



Mechanical Specifications

Type of connections	2 x 7/16 female	
Dimensions (mm) H/W/D	1940 x 720 x 192	
Wind load (N) @ 150 km/h	Frontal / Lateral / Rearside	
		880 / 400 / 920
Temperature range (°C)	-40 ÷ + 70	
Total weight (kg)	31.5	

Radiation Patterns





SMALL PANEL TETRA ANTENNA

90°, VERTICAL POL, INDOOR/OUTDOOR

380 ÷ 405 and 405 ÷ 430 MHz

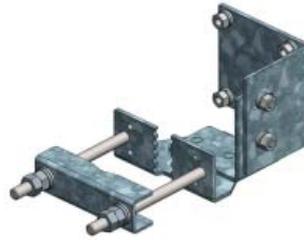
T01211406

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

Electrical Specifications

Frequency Band (MHz)	T01211406	380 ÷ 405
	T01211407	405 ÷ 430
Impedance (Ω)		50
VSWR		< 2
Polarization		linear: vertical
HPBW (deg)	Vertical Plane	70 ± 5
	Horizontal Plane	90 ± 5
Gain (dBi)		7
Continuous Max. Power (W)		50
Operating Temperature Range (°C)		-40 ÷ +70
Lightning Protection		DC grounded

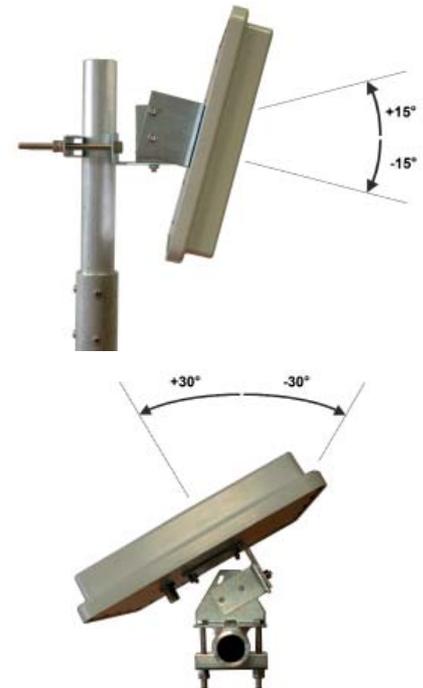
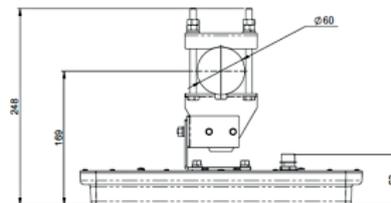
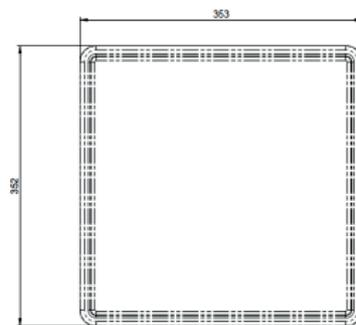


wall and pole mounting



Mechanical Specifications

Connector		N f
Dimensions (mm)		353 × 353 × 43
Colour		RAL 7035 gray
Weight (Kg)		1.9
Mounting		on pole or wall
RoHS		compliant
Environmental Tests		ETSI 300-019-2



Shipment Specifications

Packing		Cardboard Box
Dimensions (mm)		430 x 380 x 75
Weight		2.4

PANEL ANTENNAS



We reserve the right to modify these data without any notice



TETRA PANEL ANTENNA

8 dBi, 120°

380 ÷ 430 MHz

T01221409

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	linear vertical
HPBW (deg) Horizontal Plane	120 ± 3
HPBW (deg) Vertical Plane	30 ± 2
Gain (dBi)	8
Front to Back ratio (dB)	< 25
Continuous Max. Power (W)	500
Operating Temperature Range (°C)	-40 ÷ +70
Lightning Protection	DC grounded all metallic parts

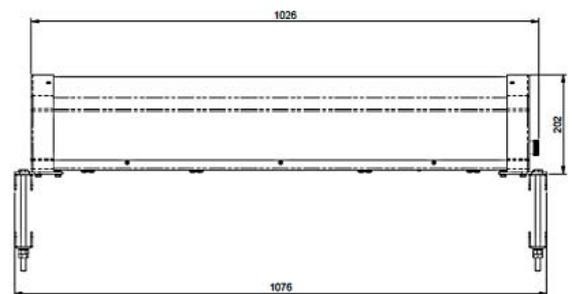
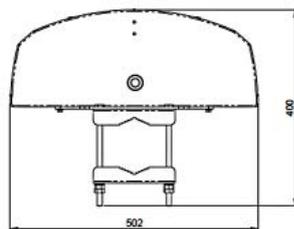


Mechanical Specifications

Connector	7/16" female	
Dimensions (mm)	1000 × 500 × 200	
Weight (Kg)	12	
Wind Load (N) @ 150 Km/h	frontal	635
	lateral	275
	rearside	705
Colour	Grey RAL 7035	
Mounting	by clamps on pole Ø 40 ÷ 120 mm	

Options

Mechanical downtilt (deg)	0 ÷ 10
---------------------------	--------





TETRA PANEL ANTENNA

9.5 dBi, 90°

380 ÷ 430 MHz

T01221404

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	linear vertical
HPBW (deg) Horizontal Plane	90 ± 3
HPBW (deg) Vertical Plane	35 ± 2
Gain (dBi)	9.5
Front to Back ratio (dB)	> 25
Continuous Max. Power (W)	500
Operating Temperature Range (°C)	-40 ÷ +70
Lightning Protection	DC grounded all metallic parts

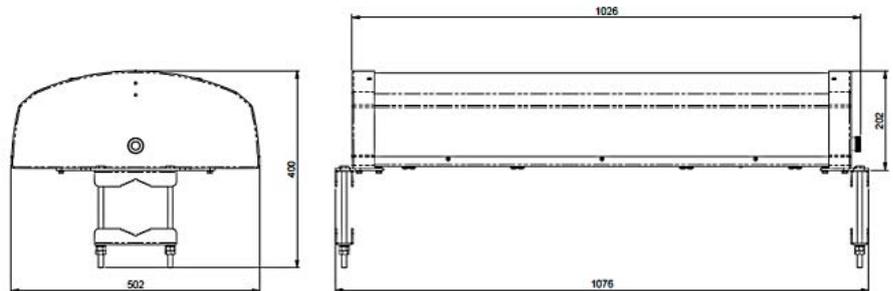


Mechanical Specifications

Connector	7/16" female	
Dimensions (mm)	1000 x 500 x 200	
Weight (Kg)	12	
Wind Load (N) @ 150 Km/h	frontal	635
	lateral	275
	rearside	705
Colour	RAL 7035 Gray	
Mounting	by clamps on pole Ø 50 ÷ 115 mm	

Options

Mechanical downtilt (deg)	0 ÷ 10
---------------------------	--------



PANEL ANTENNAS



We reserve the right to modify these data without any notice



TETRA PANEL ANTENNA

11 dBi, 120°

380 ÷ 430 MHz

T01241401

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

Electrical Specifications

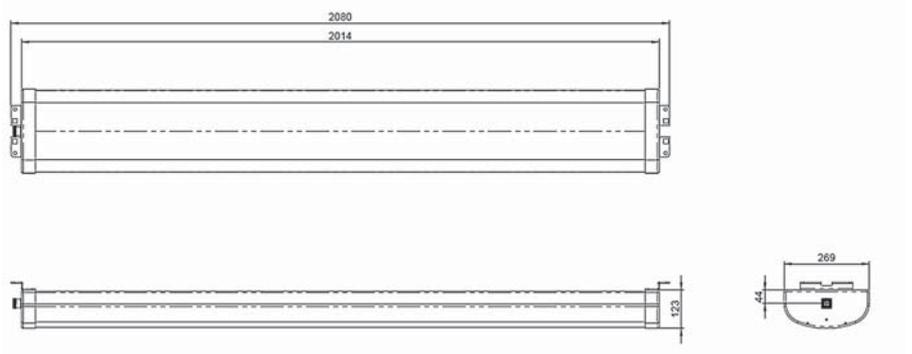
Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	linear vertical
HPBW (deg) Horizontal Plane	120
HPBW (deg) Vertical Plane	15 ± 2
Gain (dBi)	11
Front to Back ratio (dB)	> 20
Continuous Max. Power (W)	500
Operating Temperature Range (°C)	-40 ÷ +70
Lightning Protection	DC grounded all metallic parts

Mechanical Specifications

Connector	7/16" female	
Dimensions (mm)	2000 × 250 × 120	
Weight (Kg)	11	
Wind Load (N) @ 150 Km/h	frontal	677
	lateral	340
	rearside	735
Colour	Grey RAL 7035	
Mounting	by clamps on pole Ø 40 ÷ 120 mm	

Options

Mechanical downtilt (deg)	0 ÷ 10
---------------------------	--------





TETRA PANEL ANTENNA

11 dBi, 65°

380 ÷ 430 MHz

T01221401

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

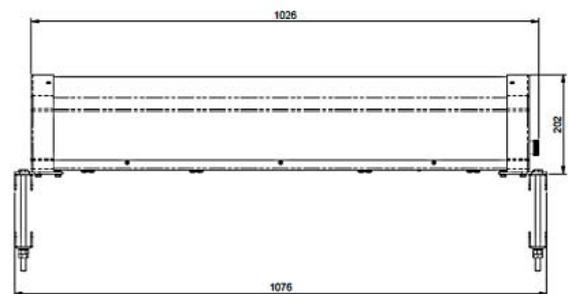
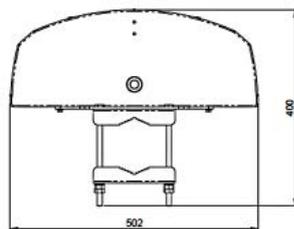
Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	linear vertical
HPBW (deg) Horizontal Plane	65 ± 3
HPBW (deg) Vertical Plane	35 ± 2
Gain (dBi)	11
Front to Back ratio (dB)	> 25
Continuous Max. Power (W)	500
Operating Temperature Range (°C)	-40 ÷ +70
Lightning Protection	DC grounded all metallic parts



Mechanical Specifications

Connector	7/16" female	
Dimensions (mm)	1000 × 500 × 200	
Weight (Kg)	12	
Wind Load (N) @ 150 Km/h	frontal	635
	lateral	275
	rearside	705
Colour	RAL 7035 Gray	
Mounting	by clamps on pole Ø 50 ÷ 115 mm	



Options

Mechanical downtilt (deg)	0 ÷ 10
---------------------------	--------

PANEL ANTENNAS



We reserve the right to modify these data without any notice



TETRA PANEL ANTENNA

13 dBi, 90°

380 ÷ 430 MHz

T01241408

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	linear vertical
HPBW (deg) Horizontal Plane	90 ± 3
HPBW (deg) Vertical Plane	18 ± 1
Gain (dBi)	13
Front to Back ratio (dB)	> 20
Continuous Max. Power (W)	500
Operating Temperature Range (°C)	-40 ÷ +70
Lightning Protection	DC grounded all metallic parts

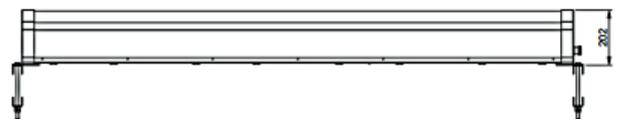
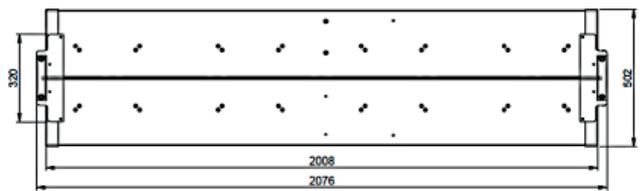
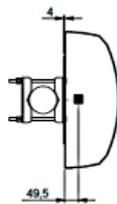


Mechanical Specifications

Connector	7/16" female	
Dimensions (mm)	2000 × 500 × 200	
Weight (Kg)	20	
Wind Load (N) @ 150 Km/h	frontal	1270
	lateral	550
	rearside	1410
Colour	RAL 7035 Gray	
Mounting	by clamps on pole Ø 50 ÷ 115 mm	

Options

Mechanical downtilt (deg)	0 ÷ 10
---------------------------	--------





TETRA PANEL ANTENNA

14 dBi, 65°

380 ÷ 430 MHz

T01241425

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

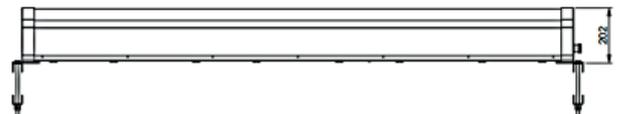
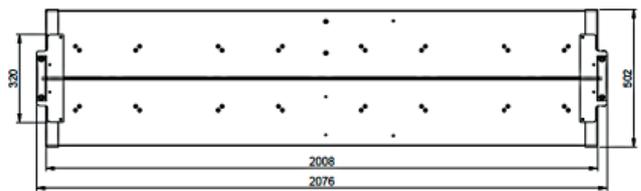
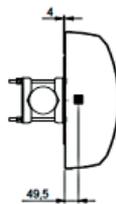
Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	linear vertical
HPBW (deg) Horizontal Plane	65 ± 2
HPBW (deg) Vertical Plane	18 ± 1
Gain (dBi)	14
Front to Back ratio (dB)	> 20
Continuous Max. Power (W)	500
Operating Temperature Range (°C)	-40 ÷ +70
Lightning Protection	DC grounded all metallic parts



Mechanical Specifications

Connector	7/16" female	
Dimensions (mm)	2000 × 500 × 200	
Weight (Kg)	20	
Wind Load (N) @ 150 Km/h	frontal	1270
	lateral	550
	rearside	1410
Colour	Grey RAL 7035	
Mounting	by clamps on pole Ø 50 ÷ 115 mm	



Options

Mechanical downtilt (deg)	0 ÷ 10
---------------------------	--------

PANEL ANTENNAS



We reserve the right to modify these data without any notice



TETRA PANEL X-POL ANTENNA

2x9.5 dBi, 90°

380 ÷ 430 MHz

T01221405

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

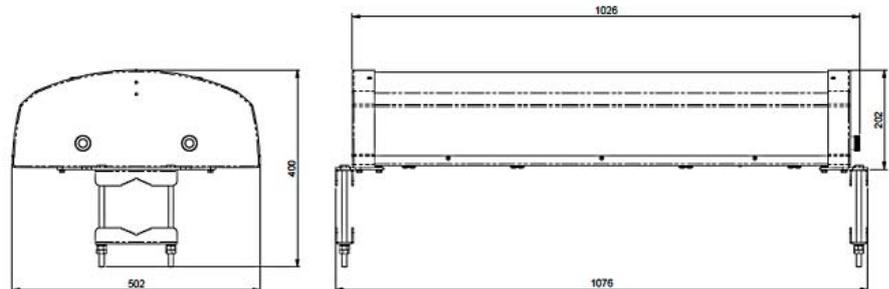
Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	slant ±45°
HPBW (deg) Horizontal Plane	90 ± 3
HPBW (deg) Vertical Plane	35 ± 2
Gain (dBi)	2 × 9.5
Front to Back ratio (dB)	> 25
Continuous Max. Power (W)	500
Operating Temperature Range (°C)	-40 ÷ +70
Lightning Protection	DC grounded all metallic parts



Mechanical Specifications

Connector	7/16" female	
Dimensions (mm)	1000 × 500 × 200	
Weight (Kg)	12	
Wind Load (N) @ 150 Km/h	frontal	635
	lateral	275
	rearside	705
Colour	RAL 7035 Gray	
Mounting	by clamps on pole Ø 50 ÷ 115 mm	



Options

Mechanical downtilt (deg)	0 ÷ 10
---------------------------	--------



TETRA PANEL X-POL ANTENNA

2x11 dBi, 65°

380 ÷ 430 MHz

T01221402

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

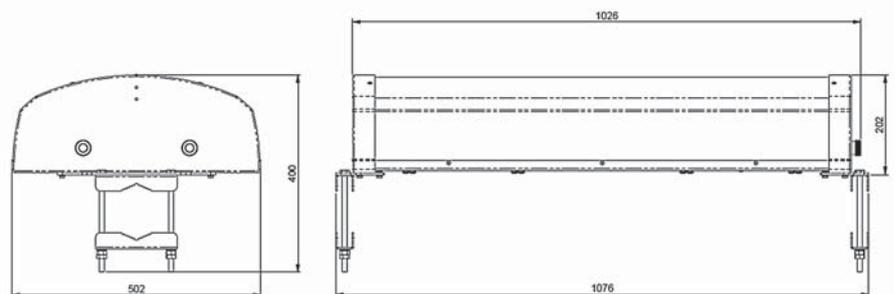
Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	slant ±45°
HPBW (deg) Horizontal Plane	65 ± 3
HPBW (deg) Vertical Plane	36 ± 2
Gain (dBi)	2x11
Front to Back ratio (dB)	> 25
Isolation between ports (dB)	≥ 30
Continuous Max. Power (W)	500
Intermodulation IM3 (dBc) 2×43dBm carrier	≤ -150
Operating Temperature Range (°C)	-40 ÷ +70
Storage Temperature Range (°C)	-60 ÷ +80
Lightning Protection	DC grounded all metallic parts



Mechanical Specifications

Connector	2 × 7/16" female	
Dimensions (mm)	1000 × 500 × 200	
Weight (Kg)	13	
Wind Load (N) @ 150 Km/h	frontal	635
	lateral	268
	rearside	705
Colour	Grey RAL 7035	
Mounting	by clamps on pole Ø 40 ÷ 120 mm	



Options

Mechanical downtilt (deg)	0 ÷ 15
---------------------------	--------

PANEL ANTENNAS



We reserve the right to modify these data without any notice



TETRA PANEL X-POL ANTENNA

2x13 dBi, 90°, 380 ÷ 430 MHz

T01241404

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

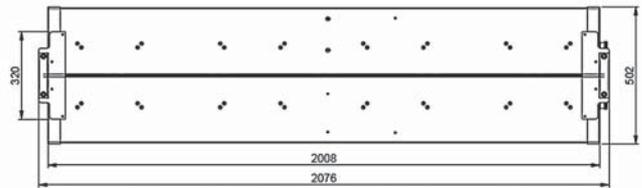
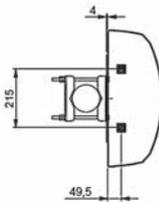
Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	slant ±45°
HPBW (deg) Horizontal Plane	88
HPBW (deg) Vertical Plane	20
Gain (dBi)	2 × 13
Front to Back ratio (dB)	> 25
Isolation between channels (dB)	> 30
Intermodulation IM3 (dBc) 2×43 dBm carriers	≤ -150
Continuous Max. Power (W)	500
Operating Temperature Range (°C)	-40 ÷ +70
Lightning Protection	DC grounded all metallic parts



Mechanical Specifications

Connector	2 × 7/16" female	
Dimensions (mm)	2000 × 500 × 200	
Weight (Kg)	20	
Wind Load (N) @ 150 Km/h	frontal	1270
	lateral	536
	rearside	1410
Colour	Grey RAL 7035	
Mounting	by clamps on pole Ø 40 ÷ 120 mm	



Options

Mechanical downtilt (deg)	0 ÷ 15
---------------------------	--------



TETRA PANEL X-POL ANTENNA

2x14 dBi, 65°

380 ÷ 430 MHz

T01241402

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

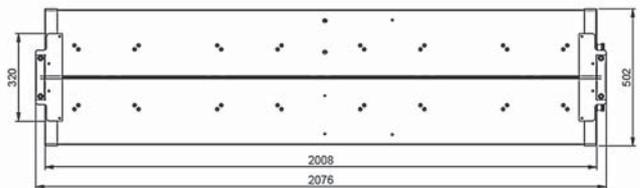
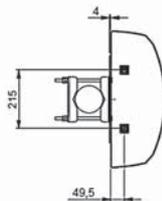
Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
VSWR	≤ 1.5
Polarization	slant ±45°
HPBW (deg) Horizontal Plane	65 ± 3
HPBW (deg) Vertical Plane	18 ± 2
Gain (dBi)	≥ 14
Front to Back ratio (dB)	≥ 25
Isolation (dB)	≥ 30
Intermodulation 2×43dBm (dBc)	< -150
Continuous Max. Power (W)	500
Operating Temperature Range (°C)	-40 ÷ +70
Storage Temperature Range (°C)	-60 ÷ +80
Lightning Protection	DC grounded all metallic parts



Mechanical Specifications

Connectors	2 × 7/16" female	
Dimensions (mm)	2000 × 500 × 200	
Weight (Kg)	23	
Wind Load (N) @ 150 Km/h	frontal	440
	lateral	227
	rearside	1029
Colour	Grey RAL 7035	
Mounting	on pole Ø 40 ÷ 120 mm	
Protection	IP55	
Mechanical Downtilt 0÷15°	T16040004	



Shipment Specifications

Packing	cardboard box
Dimensions (mm)	2140 × 590 × 285
Packed Antenna Weight (Kg)	~ 25

PANEL ANTENNAS



We reserve the right to modify these data without any notice



BAND PASS CAVITY FILTER ADJUSTABLE LOOPS

66 ÷ 82 MHz

T05110202
T05110203

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	66 ÷ 82
Impedance (Ω)	50
VSWR	> 1.3
Max continuous power (W)	100
Op. Temp. Range (°C)	- 10 ÷ 55

Mechanical Specifications

Connectors	N f
Internal finishing	Silver plating
External body finishing	Black epoxy paint RAL 9005
Mounting system	T.B.D.



T05110203

Codes	A05110203	A05120202
N° of cavity	1 cavity	2 cavity
Insertion Loss (dB)	1	2
Selectivity @ $f_0 \pm 0.5$ MHz (dB) f_0 into mid band	14	28
Dimensions (mm)	150×150×1350	150×300×1350
Weight (Kg)	9	18



T05120202





NOTCH CAVITY FILTER

66 ÷ 82 MHz

T05110203
T05110204

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	66 ÷ 82
Impedance (Ω)	50
Max continuous power (W)	500
Operating Temp. Range ($^{\circ}\text{C}$)	-10 ÷ 55

Mechanical Specifications

Connectors	N f
Colour	Black
Internal finishing	Silver plating
External body finishing	RAL 9005
External top cover finishing	Silver plating



T05110204

Codes	T05110204	T05120203
N° of cavities	1	2
Insertion Loss (dB)	< 0.5	< 0.5
Rejection @ $f_0 \pm 1\text{MHz}$ (dB) f_0 into mid band	> 20	> 40
Dimensions (mm)	150×150×1350	150×300×1350
Weight (Kg)	9	18



T05120203

By **TELSA**

We reserve the right to modify these data without any notice



VHF SINGLE CAVITY FILTER

150 mm section

T05110418

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

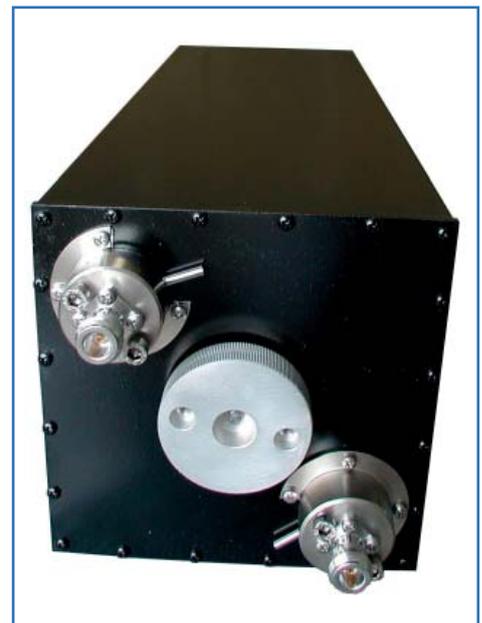
PMR

Electrical Specifications

Frequency Band (MHz)	147 ÷ 174
Impedance (Ω)	50
Insertion Loss (dB) with adjustable loop	0.5 ÷ 2
Return Loss (dB) with Insertion Loss of 1 dB	≥ 18
Attenuation @ (dB) with Insertion Loss of 1 dB	$f_0 \pm 0.5\% \geq 13$ $f_0 \pm 1\% \geq 19$
Max continuous power (W)	100
Op. Temp. Range ($^{\circ}\text{C}$)	-10 ÷ 55
Storage Temperature Range ($^{\circ}\text{C}$)	-30 ÷ 70
Max Continuous Power (W)	200

Mechanical Specifications

Connector	N f
Dimensions (mm)	150 × 150 × 525
Weight (Kg)	5





VHF DUAL CAVITY BAND PASS FILTER

150 mm section

T05120409

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	147 ÷ 174
Impedance (Ω)	50
Insertion Loss (dB)	≤ 2
Return Loss (dB)	> 15
Attenuation (dB) @ 0.5% mid band	> 35
Max Continuous Power (W)	100
Op. Temp. Range	- 10 ÷ 55



Mechanical Specifications

Connectors	N f
Weight (Kg)	21.5
External finishing	RAL 9005 black
Panel colour	RAL 9005 black
Tuning control	by external mechanism
Dimensions	5U × 19" × 663

By **TELSA**

We reserve the right to modify these data without any notice



VHF BAND PASS FILTER

144 ÷ 156 MHz

T05140501

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

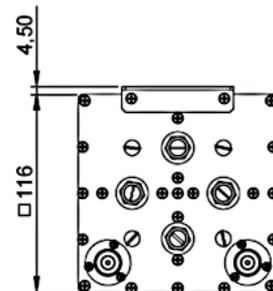
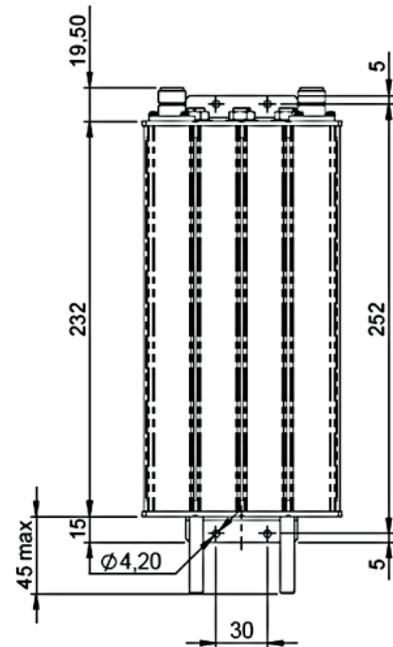
PMR

Electrical Specifications

Frequency Band (MHz)	144 ÷ 156
Bandwidth (KHz)	≥ 500
Impedance (Ω)	50
Insertion Loss (dB)	≤ 1.8
Return Loss (dB)	typical ≥ 20
	into Operating Temp. Range ≥ 15
Rejection (dB) @ $f_0 \pm 6.5$ MHz	> 65
Op. Temp. Range (°C)	-30 ÷ 60

Mechanical Specifications

RF Connectors	N f
Dimensions (mm) filter body	232 × 116 × 116
Weight (Kg)	3.1
Outside finishing	Black RAL9005
Fixing	4 × Ø4.20mm holes



By **TELSA**

We reserve the right to modify these data without any notice



UHF CAVITY BAND PASS FILTER

400 ÷ 512 MHz

T05120601

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	400 ÷ 512
Impedance (Ω)	50
Return Loss (dB) with Insertion Loss \leq 2 dB	> 18
Max Continuous Power (W)	100
Op. Temp. Range	-10 ÷ 55

Mechanical Specifications

Connectors	Nf
External finishing	RAL 9005 black
Panel colour	RAL 9005 black
Tuning control	by internal mechanism



Nr of Cavity	Code	Insertion loss (dB)	Selectivity $f_0 \pm 0.5\%$	Dimensions (mm)	Weight (Kg)
1	T05120601	1	14	150x150x350	4
2	T05110601	2	28	150x300x350	8

By **TELSA**

We reserve the right to modify these data without any notice



VHF BAND PASS FILTER

156 ÷ 174 MHz

T05140503

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

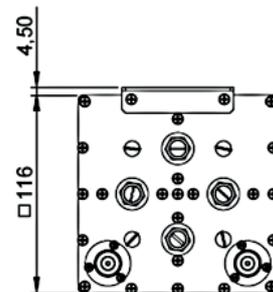
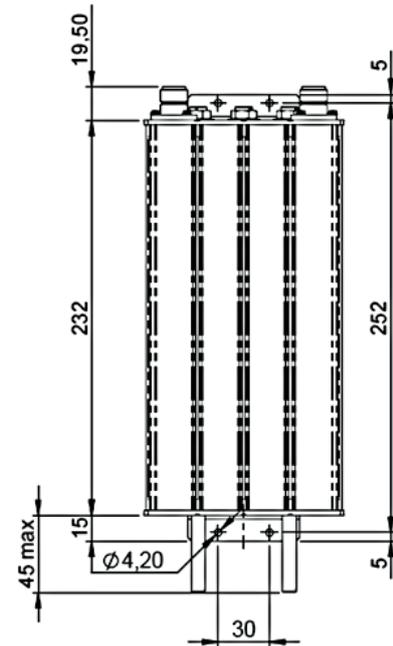
PMR

Electrical Specifications

Frequency Band (MHz)	156 ÷ 174
Bandwidth (KHz)	≥ 500
Impedance (Ω)	50
Insertion Loss (dB)	≤ 1.8
Return Loss (dB)	typical ≥ 20 into Operating Temp. Range ≥ 15
Rejection (dB) @ $f_0 \pm 6.5$ MHz 156+165 MHz	> 65
Rejection (dB) @ $f_0 \pm 8$ MHz 165+174 MHz	> 58
Operating Temperature Range (°C)	-30 ÷ +60

Mechanical Specifications

RF Connectors	N f
Dimensions (mm) filter body	232 × 116 × 116
Weight (Kg)	3.1
Outside finishing	Black RAL9005
Fixing	4 × Ø4.20mm holes



By **TELSA**

We reserve the right to modify these data without any notice



UHF BAND PASS FILTER

380 ÷ 420 MHz

T05140701

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

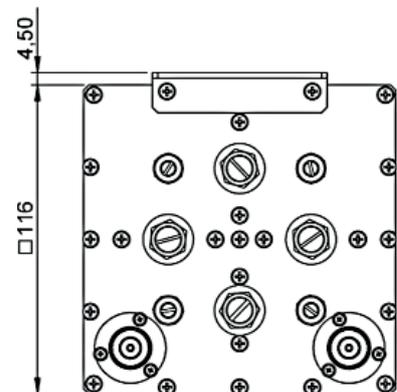
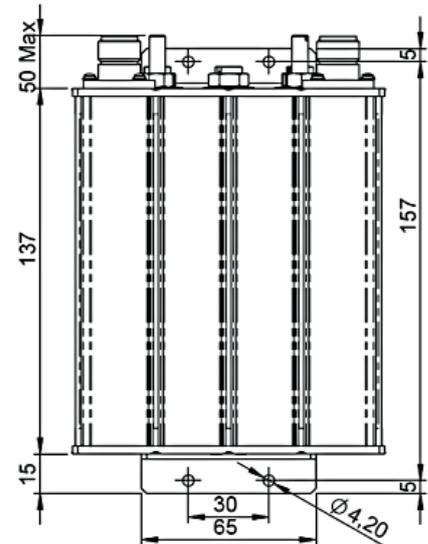
PMR

Electrical Specifications

Frequency Band (MHz)	380 ÷ 420
Bandwidth (KHz)	≥ 500
Impedance (Ω)	50
Insertion Loss (dB)	≤ 1.8
Return Loss (dB)	typical ≥ 20
	into Operating Temp. Range ≥ 17.5
Rejection (dB) @ $f_0 \pm 5\text{MHz}$	> 60
Op. Temp. Range (°C)	-30 ÷ 60

Mechanical Specifications

RF Connectors	N f
Dimensions (mm) filter body	137 × 116 × 116
Weight (Kg)	1.4
Outside finishing	Black RAL9005
Fixing	4 × Ø4.20mm holes



By **TELSA**

We reserve the right to modify these data without any notice



UHF BAND PASS FILTER

420 ÷ 520 MHz

T05140703

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

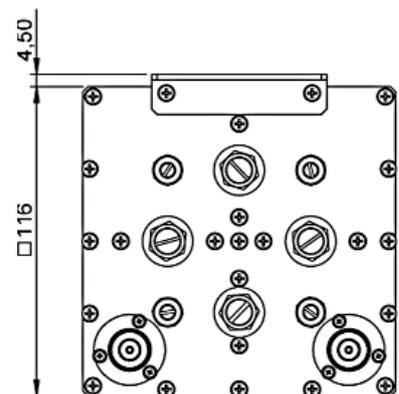
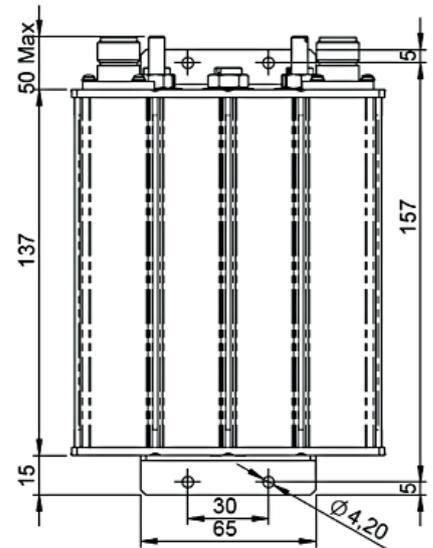
PMR

Electrical Specifications

Frequency Band (MHz)	420 ÷ 520	
Bandwidth (KHz)	≥ 500	
Impedance (Ω)	50	
Insertion Loss (dB)	≤ 1.8	
Return Loss (dB)	typical	≥ 20
	into Operating Temp. Range	≥ 17.5
Rejection (dB) @ $f_0 \pm 5\text{MHz}$	> 60	
Op. Temp. Range (°C)	-30 ÷ 60	

Mechanical Specifications

RF Connectors	N f	
Dimensions (mm) filter body	137 × 116 × 116	
Weight (Kg)	1.4	
Outside finishing	Black RAL9005	
Fixing	4 × Ø4.20mm holes	



We reserve the right to modify these data without any notice



RX FILTER FOR TETRA

380 ÷ 385 MHz

T05161401

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	380 ÷ 385	
Impedance (Ω)	50	
Bandwidth (MHz)	5	
Guard Band (MHz)	5	
Frequency spacing (MHz)	10	
Insertion Loss (dB)	@ ambient temperature	< 1.4
	@ operating temperature	< 1.7
Return Loss (dB)	> 17.5	
RX attenuation (dB) @ TX frequencies	≥ 70	
Out of band attenuation (dB)	65÷80 MHz	≥ 80
	145÷175 MHz	≥ 80
	530÷4000 MHz	≥ 30
Coupling (dB) of the directional coupler	35 ± 3	
VSWR of the directional coupler	1.2	
Continuous input power (dBm)	40	
Environmental conditions	ETS 300-019-1-0	
Safety	EN 60950	
EMC standard compliance	ETSI EN 301-489-18	
Operating Temp. Range (°C)	-10 ÷ 70	



Mechanical Specifications

Antenna	N f	
Connectors	RX	SMA f
	Coupled Line	SMA f
Dimensions (mm)	233 x 210 x 40	
Weight (Kg)	1.76	
Transportation	ETS 300-019-1-2 class 2.2	
Storage	ETS 300-019-1-1 class 1.2	
In use stationary weather protected	ETS 300-019-1-3 class 3.2	

By **TELSA**

We reserve the right to modify these data without any notice



PASS REJECT DUPLEXER

T06210215

66 ÷ 88 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	66 ÷ 88
Impedance (Ω)	50
VSWR @ f_0 , all ports	> 1.3
Insertion Loss (dB)	< 1.2
Isolation (dB) between channels	> 80
Channel Spacing (MHz)	1
Continuous Power Input (W)	100
Op. Temp. Range ($^{\circ}\text{C}$)	-30 ÷ +60

Mechanical Specifications

RF Connectors	N f
Dimensions (mm)	300 × 300 × 1400
Weight (Kg)	35





SIX-RESONATOR PASS REJECT DUPLEXER

R-6X 145 G

144 ÷ 164 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Main Characteristics

Frequency Band (MHz)	144 ÷ 164
Impedance (Ω)	50
V.S.W.R.	<1.4
Maximum rated RF power (W)	100
Tx-Rx insertion loss (dB)	<1.2
Tx-Rx isolation (dB)	>80
Frequency stability (ppm/C°)	4.5
Type of connection	BNC female (Tx-RX) N female (antenna)
Cavity material	Aluminium alloy DIN 3.2306
Treatment (Chemical conversion coating)	MIL-C-5541 with grey varnish RAL7001
Elements material	Brass passivated
Dimensions (mm)	33 x 157 x 212
Net weight (g)	1100 g
Working Temperature (°C)	-35 ÷ +80



By



We reserve the right to modify these data without any notice



SIX-RESONATOR PASS REJECT DUPLEXER

R-6X 145 H

154 ÷ 174 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Main Characteristics

Frequency Band (MHz)	154 ÷ 174
Impedance (Ω)	50
V.S.W.R.	<1.4
Maximum rated RF power (W)	100
Tx-Rx insertion loss (dB)	<1.2
Tx-Rx isolation (dB)	>80
Frequency stability (ppm/C°)	4.5
Type of connection	BNC female (Tx-RX) N female (antenna)
Cavity material	Aluminium alloy DIN 3.2306
Treatment (Chemical conversion coating)	MIL-C-5541 with grey varnish RAL7001
Elements material	Brass passivated
Dimensions (mm)	33 x 157 x 212
Net weight (g)	1100 g
Working Temperature (°C)	-35 ÷ +80





SIX-RESONATOR PASS REJECT DUPLEXER

R-6X 110 Q

380 ÷ 430 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Main Characteristics

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
V.S.W.R.	<1.4
Maximum rated RF power (W)	100
Tx-Rx insertion loss (dB)	<1.2
Tx-Rx isolation (dB)	>85
Frequency stability (ppm/C°)	4.5
Type of connection	BNC female (Tx-RX) N female (antenna)
Cavity material	Aluminium alloy DIN 3.2306
Treatment (Chemical conversion coating)	MIL-C-5541 with grey varnish RAL7001
Elements material	Brass passivated
Dimensions (mm)	33 x 157 x 247
Net weight (g)	1350 g
Working Temperature (°C)	-35 ÷ +80



By



We reserve the right to modify these data without any notice



SIX-RESONATOR PASS REJECT DUPLEXER

R-6X 110 Z

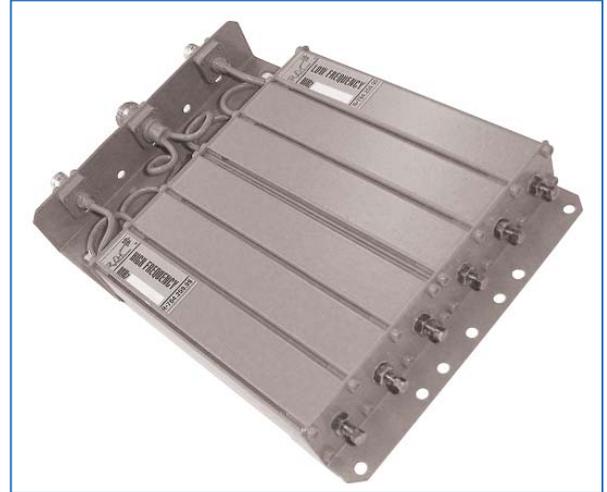
420 ÷ 470 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Main Characteristics

Frequency Band (MHz)	420 ÷ 470
Impedance (Ω)	50
V.S.W.R.	<1.4
Maximum rated RF power (W)	100
Tx-Rx insertion loss (dB)	<1.2
Tx-Rx isolation (dB)	>85
Frequency stability (ppm/C°)	4.5
Type of connection	BNC female (Tx-RX) N female (antenna)
Cavity material	Aluminium alloy DIN 3.2306
Treatment (Chemical conversion coating)	MIL-C-5541 with grey varnish RAL7001
Elements material	Brass passivated
Dimensions (mm)	33 x 157 x 230
Net weight (g)	1350 g
Working Temperature (°C)	-35 ÷ +80





4 CHANNELS UHF HYBRID COMBINER

400 ÷ 520 MHz

T06030605

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

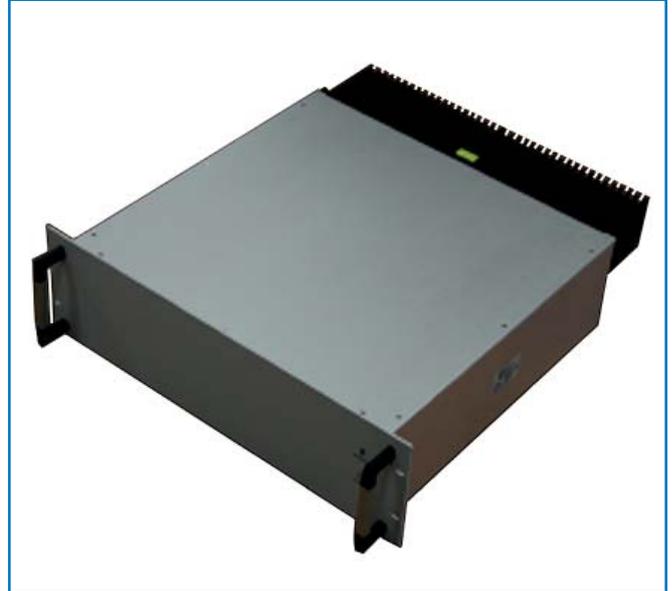
PMR

Electrical Specifications

Frequency Band (MHz)	400 ÷ 520
Impedance (Ω)	50
Insertion loss	≤ 7.5
VSWR	< 1.5
Isolation (dB) channel to channel	> 35
Max continuous Input Power (W) all ports simultaneously	50
Op. Temp. Range (°C)	- 20 ÷ 55
Electrical Safety	EN 60950 EN 60215
EMI / EMC	ETSI EN 301 489-1 /-18

Mechanical Specifications

RF Connectors	N f
Dimensions	3U × 19" × 520mm
Weight (Kg)	12.5
Front Panel Colour	RAL 7047
Relative Humidity	< 95% @ 40°C not condensing
Vibration	IEC 60068-2-6 0.3mm double amplitude 2g, 10 ÷ 55 Hz 1 octave / min total test period 30min
Shock	IEC 60068-2-27 30g for 11ms 18 shocks in 3 positions
MTBF (hours)	≥ 1000000



By **TELSA**

We reserve the right to modify these data without any notice



4 CHANNELS VHF HYBRID COMBINER

T06030410

144 ÷ 174 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	144 ÷ 174
Impedance (Ω)	50
Insertion loss	≤ 8
VSWR	< 1.5
Isolation (dB) channel to channel	> 35
Max continuous Input Power (W) all ports simultaneously	50
Op. Temp. Range ($^{\circ}\text{C}$)	- 20 ÷ 55
Electrical Safety	EN 60950 EN 60215
EMI / EMC	ETSI EN 301 489-1 /-18

Mechanical Specifications

RF Connectors	N f
Dimensions	3U × 19" × 520mm
Weight (Kg)	14
Front Panel Colour	RAL 7047
Relative Humidity	$< 95\%$ @ 40 $^{\circ}\text{C}$ not condensing
Vibration	IEC 60068-2-6 0.3mm double amplitude 2g, 10 ÷ 55 Hz 1 octave / min total test period 30min
Shock	IEC 60068-2-27 30g for 11ms 18 shocks in 3 positions
MTBF (hours)	≥ 1000000





2 CHANNELS UHF HYBRID COMBINER

400 ÷ 520 MHz

T06010605

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	400 ÷ 520	
Impedance (Ω)	50	
Insertion Loss (dB)	≤ 5	
VSWR	< 1.5	
Isolation (dB) channel to channel with	VSWR=1	≥ 65
	VSWR=2	≥ 55
Reverse Isolation (dB)	≥ 40	
Power per Input (W)	50	
Op. Temp. Range ($^{\circ}\text{C}$)	$-20 \div 55$	
Electrical Safety	EN 60950	
	EN 60215	
EMI / EMC	ETSI EN 301 489-1 /-18	



Mechanical Specifications

RF Connectors	N f
Dimensions	3U x 19" x 520mm
Weight (Kg)	10.5
Front Panel Colour	RAL 7047
Relative Humidity	$< 95\%$ @ 40°C not condensing
Vibration	IEC 60068-2-6 0.3mm double amplitude 2g, $10 \div 55$ Hz 1 octave / min total test period 30min
Shock	IEC 60068-2-27 30g for 11ms 18 shocks in 3 positions
MTBF (hours)	≥ 440000
Environmental Conditions	IP20

By **TELSA**

We reserve the right to modify these data without any notice



2 ÷ 8 CHANNELS TX VHF SINGLE CAVITY COMBINER in Star Configuration with isolator

T06090411

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

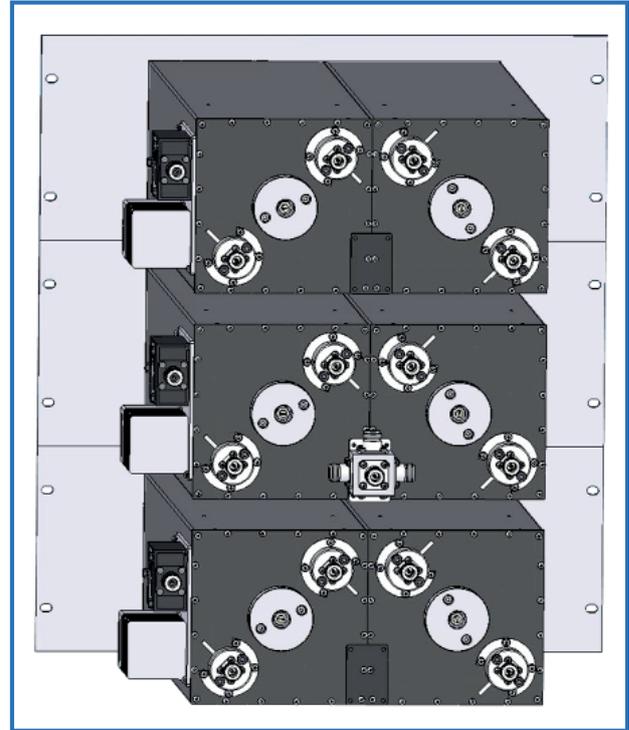
PMR

Electrical Specifications

Frequency Band (MHz)	147 ÷ 174
Impedance (Ω)	50
Insertion Loss (dB)	< 2
Return Loss (dB) input & output	≥ 18
Isolation (dB) between channels with 0.5% separation	> 30
Max Continuous Power (W_{RMS})	50
Op. Temp. Range ($^{\circ}C$)	-10 ÷ 55

Mechanical Specifications

RF Connector	N f	
Dimensions	width	19"
	depth	550 mm
	height	Look at the table
Weight (Kg)	Look at the table	
Panel Colour	RAL9005	



Nr of Ch	Code	Nr of Frames	Height (U)	Weight (Kg)
2	T06090411	1	4	10.5
3	T06100409	2	8	16.5
4	T06110409	2	8	21
5	T06120429	3	12	27
6	T06120430	3	12	31.5
7	T06120431	4	16	37.5
8	T06120405	4	16	42



2 CHANNELS TETRA CAVITY COMBINER

380 ÷ 430 MHz

T06131405

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
Channel Spacing (KHz)	500
Return Loss (dB)	≥ 14
Max Continuous Power (W)	100
Insertion Loss (dB)	≤ 2
Isolation between channels (dB) with 500 KHz channel spacing	≥ 10
Storage Temperature (°C)	-40 ÷ +70
Umidity (no condensing)	5% ÷ 95%
Electrical Safety	IEC 60950-1 EN 60950-1
EMC	ETSI EN 301 489-1 489-22



Mechanical Specifications

RF Connector	N f
Dimensions	5U × 19" × 460mm
Weight (Kg)	10
Panel Colour	RAL7035
Operating Environment	ETS 300 019-1-2 ETS 300 019-2-3 Class 3.1E
with Extend Temperature Range	-10 ÷ +55
Transportation and Handling	ETS 300 019-2-2 Class 2.2

By **TELSA**

We reserve the right to modify these data without any notice



4 CHANNELS TETRA CAVITY COMBINER

380 ÷ 430 MHz

T06131407

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	380 ÷ 430
Impedance (Ω)	50
Channel Spacing (KHz)	500
Return Loss (dB)	≥ 14
Max Continuous Power (W)	100
Insertion Loss (dB)	≤ 2.3
Isolation between channels (dB) with 500 KHz channel spacing	≥ 10
Storage Temp. Range (°C)	-40 ÷ 70
Umidity (no condensing)	5% ÷ 95%
Electrical Safety	IEC 60950-1 EN 60950-1
EMC	ETSI EN 301 489-1 490-22



Mechanical Specifications

RF Connector	Nf
Dimensions (mm)	10U × 19" × 460mm
Weight (Kg) total	20
Panel Colour	RAL7035 (black)
Operating Enviroment	ETS 300 019-1-2 ETS 300 019-2-3 Class 3.1E
With Extend Temperature Range	-10 ÷ +55
Transportation and Handling	ETS 300 019-2-2 Class 2.2



VHF 3 dB HYBRID COUPLER

T09210404

118 ÷ 170 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	118 ÷ 170
Impedance (Ω)	50
Insertion Loss (dB)	≤ 3.3
Return Loss (dB) all ports	> 20
Isolation (dB)	≥ 25
Max Continuous Power (W)	100
Op. Temp. Range ($^{\circ}\text{C}$)	-10 ÷ +50

Mechanical Specifications

Connector	4 x N f
Dimensions (mm)	302 x 65 x 52
Colour	RAL 9005 (black)
Weight (g)	832

DESCRIPTION:

Hybrid coupler is a passive device used with a few different applications. It is a type of directional coupler where the input power is equally divided between two output ports. It is designed for decoupled combining of two transmitters/receiver units with the same frequency range at 3dB loss, with frequency spacing as narrow as desired. It can also work as a combiner component to combine two signals to a common port or to split an incoming signal equally to two output ports.

3dB couplers are used also in Telsa combiners in Double Bridge Configuration. In terms of functioning, the 3dB coupler has four ports, with the first and last ones decoupled from each other. When power is entered from the first port, it is equally divided between the second and third ports. The fourth port, which theoretically should be decoupled and therefore without power, is normally terminated with an absorber properly dimensioned for the mismatch between the second and third ports.



By **TELSA**

We reserve the right to modify these data without any notice



UHF 3 dB HYBRID COUPLER

406 ÷ 512 MHz

T09110701

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	406 ÷ 512
Impedance (Ω)	50
Temperature Range ($^{\circ}\text{C}$)	-10 ÷ +50
Max Continuous Power (W)	100
Insertion Loss (dB)	≤ 3.25
Return Loss (dB) all ports	> 19
Isolation (dB)	≥ 25

Mechanical Specifications

Connectors	N f
Dimensions (mm)	156 × 35 × 33
Material	Anticorodal EN AW 6060
Surface Treatment	SURTEC 650 chromitAL TCP
Weight (g)	520





VHF 3 dB HYBRID COUPLER

66 ÷ 80 MHz

T09110202

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	66 ÷ 80
Impedance (Ω)	50
VSWR	≤ 1.2
Insertion Loss (dB)	≤ 3.4
Isolation (dB)	≥ 25
Continuous Max Power (W)	100
Op. Temp. Range ($^{\circ}\text{C}$)	- 10 ÷ 50



Mechanical Specifications

Connector	Nf
Dimensions (mm)	650 × 35 × 53
Material	Aluminum
Weight (Kg)	1.6

By **TELSA**

We reserve the right to modify these data without any notice



TWO WAYS COUPLER FOR ARRAYS OF ANTENNAS

66 ÷ 88 MHz

R-2 Y10 NE

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

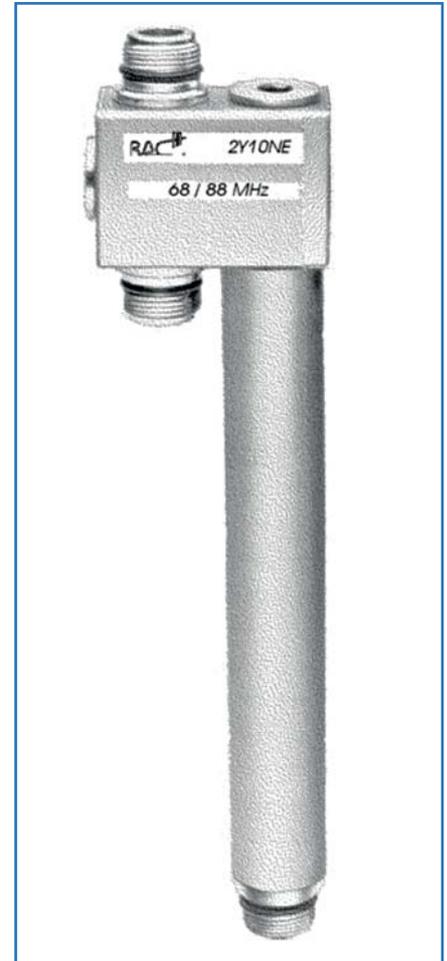
Main Characteristics

Frequency Band (MHz)	66 ÷ 88
Impedance (Ω)	50
V.S.W.R.	<1.2
V.S.W.R. (1 gate open)	<2
Maximum rated RF power (W)	1000
Insertion loss (dB)	0.1
Type of connection	N female
Hermetic seal	Pass helium leak test of 1x10 ⁻¹⁰ cc/sec
Inner conductor	Brass silver plated
Housing material	Aluminium alloy DIN 3.3206
Net weight (g)	620
Dimensions (mm)	25 x 50 x 430
Working Temperature (°C)	-35 ÷ +80

DESCRIPTION:

This coupler finds its specific application in arrays of Yagi antennas.

High performances and professional equipment.



By



We reserve the right to modify these data without any notice



TWO WAYS COUPLER FOR ARRAYS OF ANTENNAS

135 ÷ 180 MHz

R-2 Y10 NH

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

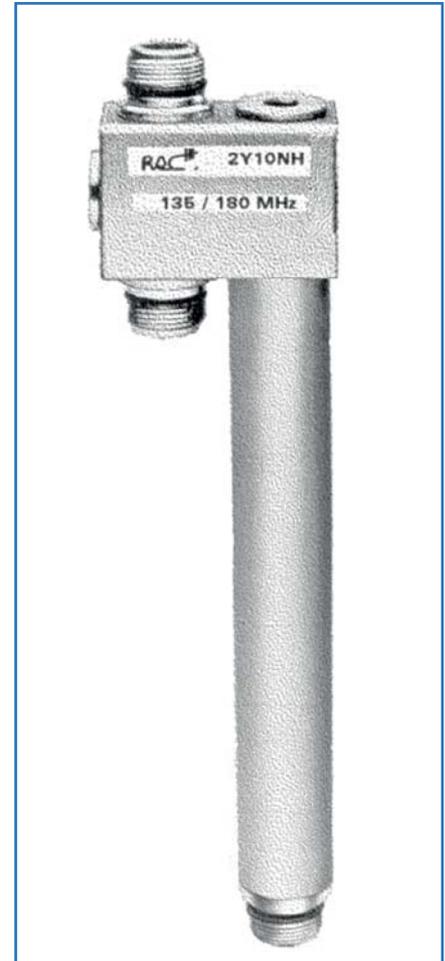
Main Characteristics

Frequency Band (MHz)	135 ÷ 180
Impedance (Ω)	50
V.S.W.R.	<1.2
V.S.W.R. (1 gate open)	<2
Maximum rated RF power (W)	1000
Insertion loss (dB)	0.1
Type of connection	N female
Hermetic seal	Pass helium leak test of 1×10^{-10} cc/sec
Inner conductor	Brass silver plated
Housing material	Aluminium alloy DIN 3.3206
Net weight (g)	310
Dimensions (mm)	25 x 50 x 245
Working Temperature ($^{\circ}$ C)	-35 ÷ +80

DESCRIPTION:

This coupler finds its specific application in arrays of Yagi antennas.

High performances and professional equipment.



By



We reserve the right to modify these data without any notice



FOUR WAYS COUPLER FOR ARRAYS OF ANTENNAS

152 ÷ 174 MHz

R-4 Y10 NH

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Main Characteristics

Frequency Band (MHz)	152 ÷ 174
Impedance (Ω)	50
V.S.W.R.	<1.2
V.S.W.R. (1 gate open)	<2
Maximum rated RF power (W)	1000
Insertion loss (dB)	0.1
Type of connection	N female
Hermetic seal	Pass helium leak test of 1×10^{-10} cc/sec
Inner conductor	Brass silver plated
Housing material	Aluminium alloy DIN 3.3206
Net weight (g)	400
Dimensions (mm)	25 x 72 x 210
Working Temperature ($^{\circ}\text{C}$)	-35 ÷ +80

DESCRIPTION:

This coupler finds its specific application in arrays of Yagi antennas.

High performances and professional equipment.





TWO WAYS COUPLER FOR ARRAYS OF ANTENNAS

400 ÷ 520 MHz

R-2 Y10 NZ

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

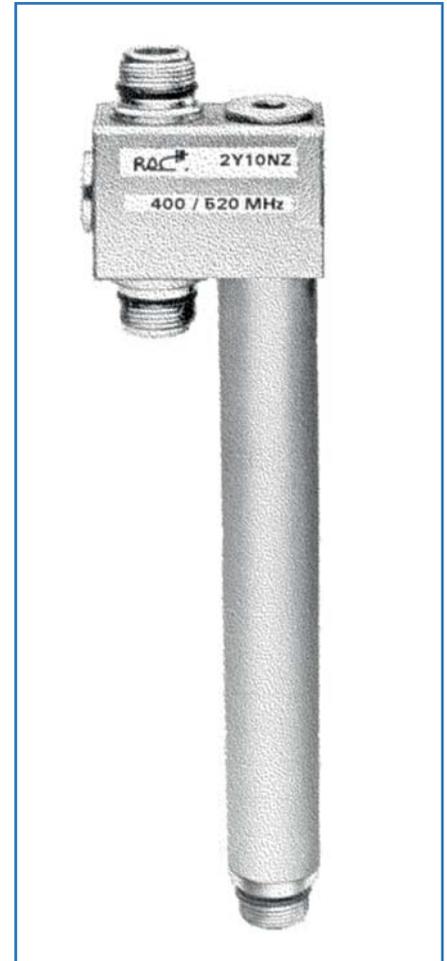
Main Characteristics

Frequency Band (MHz)	400 ÷ 520
Impedance (Ω)	50
V.S.W.R.	<1.2
V.S.W.R. (1 gate open)	<2
Maximum rated RF power (W)	1000
Insertion loss (dB)	0.1
Type of connection	N female
Hermetic seal	Pass helium leak test of 1×10^{-10} cc/sec
Inner conductor	Brass silver plated
Housing material	Aluminium alloy DIN 3.3206
Net weight (g)	230
Dimensions (mm)	25 x 50 x 135
Working Temperature ($^{\circ}\text{C}$)	-35 ÷ +80

DESCRIPTION:

This coupler finds its specific application in arrays of Yagi antennas.

High performances and professional equipment.



By



We reserve the right to modify these data without any notice



FOUR WAYS COUPLER FOR ARRAYS OF ANTENNAS

415 ÷ 470 MHz

R-4 Y10 NZ

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Main Characteristics

Frequency Band (MHz)	415 ÷ 470
Impedance (Ω)	50
V.S.W.R.	<1.2
V.S.W.R. (1 gate open)	<2
Maximum rated RF power (W)	1000
Insertion loss (dB)	0.1
Type of connection	N female
Hermetic seal	Pass helium leak test of 1×10^{-10} cc/sec
Inner conductor	Brass silver plated
Housing material	Aluminium alloy DIN 3.3206
Net weight (g)	300
Dimensions (mm)	25 x 72 x 175
Working Temperature ($^{\circ}$ C)	-35 ÷ +80

DESCRIPTION:

This coupler finds its specific application in arrays of Yagi antennas.

High performances and professional equipment.





RF SPLITTER 2 WAYS

380 ÷ 512 MHz

T07311402

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

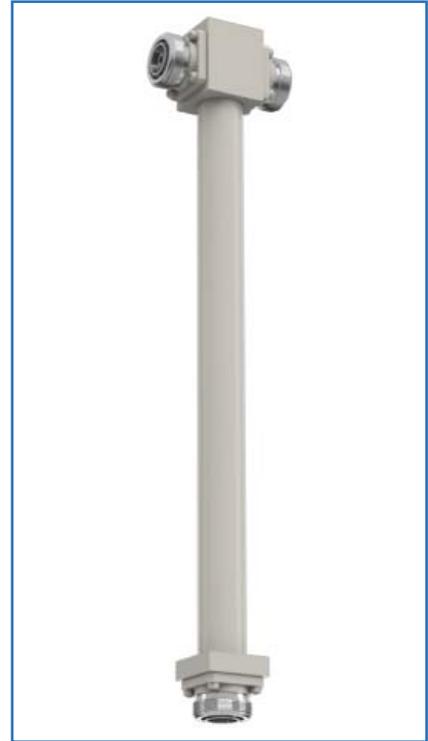
PMR

Electrical Specifications

Frequency Band (MHz)	380 ÷ 512
Impedance (Ω)	50
V.S.W.R	$\leq 1.1:1$
Continuous Max. Power (W)	1000
Op. Temp. Range ($^{\circ}\text{C}$)	-10 ÷ +55
Insertion loss (dB)	< 0.005
Isolation (dB)	> 20

Mechanical Specifications

Connectors	3 x 7/16
Dimensions (mm)	387 x \varnothing 25
Weight (Kg)	1.3



By **TELSA**

We reserve the right to modify these data without any notice



RF SPLITTER 3 WAYS

380 ÷ 512 MHz

T07321402

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

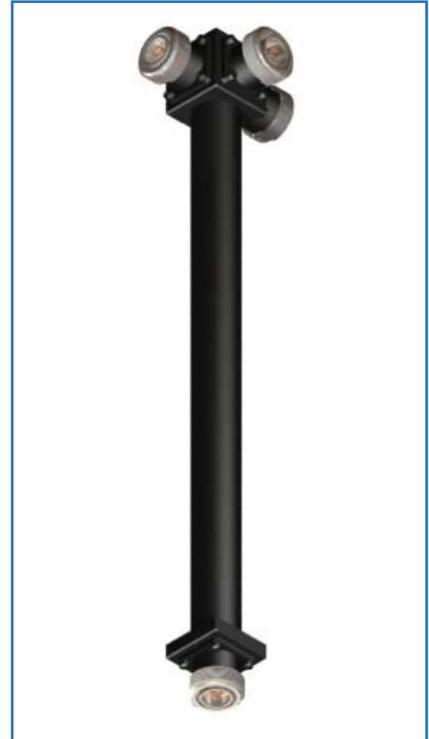
PMR

Electrical Specifications

Frequency Band (MHz)	380 ÷ 512
Impedance (Ω)	50
V.S.W.R	$\leq 1.1:1$
Continuous Max. Power (W)	1000
Op. Temp. Range ($^{\circ}\text{C}$)	-10 ÷ +55
Insertion loss (dB)	< 0.005
Isolation (dB)	> 20

Mechanical Specifications

Connectors	4 x 7/16
Dimensions (mm)	410 x \varnothing 28
Weight (Kg)	1.3





VHF RECEIVER MULTICOUPLER 8 WAYS

147 ÷ 174 MHz

T13060401

PMR

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

Electrical Specifications

Frequency Band (MHz)	147 ÷ 174
Impedance (Ω)	50
Nr. of outputs	8
Nr. of antenna ports	1
Nr. of power supply ports	2
Return Loss (all ports) (dB)	≥ 15
Noise figure (dB)	≤ 4
Gain (dB)	2 ± 1.5
Isolation (dB) between any 2 outputs	≥ 20
IP 3rd order (dBm)	$\geq +25$
Band rejection @10MHz (dB)	≥ 25
Power supply (V_{DC})	21.6 ÷ 31.2
Op. Temp. Range ($^{\circ}C$)	-20 ÷ 50
Storage Temp. Range ($^{\circ}C$)	40 ÷ 70
Op. Humidity Range ($^{\circ}C$)	5% ÷ 90%
Storage Humidity Range ($^{\circ}C$)	100%
Protection	IP 20

DESCRIPTION:

This receiver multicoupler allows to connect up to 8 channels to one 147-174 MHz VHF band.

The low noise figure [< 4 dB] and excellent intermodulation properties guarantee a high dynamic range and thereby enhanced receiving conditions.

This is particularly significant in locations where transmitters are operated nearby. Unused output ports should always be terminated with 50 Ohm loads to preserve gain flatness and specified inter-port isolation.



Mechanical Specifications

Connectors	N f
Dimensions (mm)	19" x 1U x 385
Weight (Kg)	3.4

By **TELSA**

We reserve the right to modify these data without any notice



DUPLEXER FOR TETRA

380 ÷ 395 MHz and 385 ÷ 400 MHz

T06211481

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	T06211481	RX	380+385
		TX	390+395
	T06211489	RX	385+390
		TX	395+400
Impedance (Ω)			50
Bandwidth (MHz)			5
Guard Band (MHz)			5
Frequency Spacing (MHz)			10
Insertion Loss (dB) @ room temperature			≤ 1.3
Return Loss (dB)			> 18
TX Attenuation (dB) @ RX frequencies			≥ 80
RX Attenuation (dB) @ TX frequencies			≥ 80
Out of Band Attenuation (dB) into band	65 ÷ 80 MHz		≥ 80
	145 ÷ 175 MHz		≥ 80
	530 ÷ 4000 MHz		≥ 30
IP3 (dBm) with 2 × 50 W carriers			≥ 93
Continuous Input Power (dBm)			≥ 53
Operating Temp. Range (°C)			-10 ÷ +70
Environmental Conditions			ETS 300-019-1-0
Safety			EN60950
EMC standard compliance			ETSI EN 301 489-18

Mechanical Specifications

Antenna connector		N f
TX connector		N f
RX connector		SMA f
Dimensions (mm)		246 × 217 × 129
Weight (Kg)		5.9
Front panle colour		uncolour anodized
Transportation		ETS 300-019-1-2 class 2.2
Storage		ETS 300-019-1-1 class 1.2
In use stationary weather protected		ETS 300-019-1-3 class 3.2





UHF 3 dB DUPLEXER

400 ÷ 470 MHz

T06211801

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	400÷470
Frequency Spacing (MHz)	4.6
Impedance (Ω)	50
Insertion Loss @ f_0 (dB)	< 1.5
Return Loss @ f_0 (dB)	> 15
Isolation TX/RX (dB)	> 70
Isolation RX/TX (dB)	> 70
Operating Temp. Range (°C)	-10 ÷ 55
Max Continuous Power (W)	50



Mechanical Specifications

Connectors	Nf
Dimensions (mm)	150 × 234 × 43
Colour	RAL 9005 (black)
Weight (Kg)	1.5
Material	Alluminium

By **TELSA**

We reserve the right to modify these data without any notice



DUPLEXER

T06210706

430 ÷ 470 MHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	430 ÷ 470
Impedance (Ω)	50
Insertion Loss (dB)	≤ 2
Tx/Rx Isolation (dB)	≥ 73
Return Loss (dB)	≥ 19
Bandwidth (MHz)	3
Rx /Tx Distance (MHz)	> 9.5
Out-Band Attenuation up to 2.8 GHz (dB)	> 40
Max Continuous Power (W)	100
Operating Temperature Range ($^{\circ}\text{C}$)	$-10 \div +60$

Mechanical Specifications

Dimensions (mm)	197 × 95 × 120
Antenna connector	N f
Rx / Tx connectors	BNC f 90°
Material	Aluminium Alloy
Finishing	Silver Plated
Weight (Kg)	2.8





RF LOAD 30W

T10140101

0 ÷ 1 GHz

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

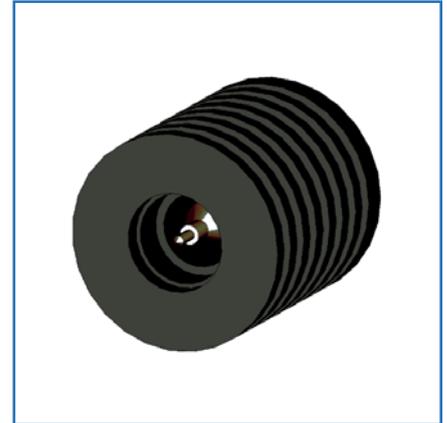
PMR

Electrical Specifications

Frequency Band (MHz)	0 ÷ 1000
Impedance (Ω)	50
VSWR	1 ÷ 1.15

Mechanical Specifications

RF Connector	Nm
Dimensions (mm)	\varnothing 35 × 38
Weight (g)	70
Colour	Black



By **TELSA**

We reserve the right to modify these data without any notice



50Ω DUMMY LOADS

T101XXXXX

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

50W Dummy Load

Description	Code
Connector Nf	T10130204
Connector Nm	T10130207
Dimensions (mm)	90x50x50
VSWR [0÷1GHz]	1 : 1.15
VSWR [1÷2GHz]	1 : 1.25

100W Dummy Load

Description	Code
Connector Nf	T10130205
Connector Nm	T10130206
Dimensions (mm)	147x70x70
VSWR [0÷1GHz]	1 : 1.15
VSWR [1÷2GHz]	1 : 1.25





VSWR METER

100 ÷ 500 MHz

T11631406

TEDAP offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

PMR

Electrical Specifications

Frequency Band (MHz)	100 ÷ 500	
Impedance (Ω)	50	
VSWR	min 1.05 max 1.25 typ. 1.1	
Insertion Loss (dB)	≤ 0.1	
Input Continuous Max Power (W)	250	
Min. Power detected (mW)	500	
Power Supply (V_{DC})	20 ÷ 40	
Alarm Conditions	alarm on	$\leq 1 V_{DC}$
	alarm off	Power Supply
	adjustable threshold	VSWR = 2+3.5 $\pm 25\%$
	Factory VSWR threshold	2.3 $\pm 25\%$
Op. Temp. Range ($^{\circ}C$)	-10 ÷ 70	

DESCRIPTION:

The VSWR Meter is used to detect any possible malfunctioning in the device, typically an antenna, to which it is connected.

It measures VSWR value and sends an alarm when the latter exceeds a certain user defined threshold [adjustable from 1.5 to 4].



Mechanical Specifications

Dimensions (mm)	110 × 28 × 70
Colour	RAL9005 (black)
Fixing Holes	4 × M2.5
Dimensions (mm)	$\varnothing 35 \times 38$
Weight (g)	410
RF Connector	N f
Power Supply and Alarm Connector pin-out D-sub 9 poles f	
1	alarm output (active low)
3, 4	power supply
2, 7, 8	not connected
5, 6, 9	ground
4 pins male connector for LEDs 2.54mm Tyco AMPMODU	
1	ALARM LED + (A)
2	ALARM LED - (K)
3	POWER LED - (K)
4	POWER LED + (A)

By **TELSA**

We reserve the right to modify these data without any notice

Europe is our business area



TEAP®



www.tedap.eu



Radio Frequency Antennas Projects



TEDAP SRL

37123 VERONA - ITALY
Via Quirico Filopanti, 3

PH +39 045 8011866 - +39 045 8009514
FAX +39 045 8006945

www.tedap.eu
tedap@tedap.eu

