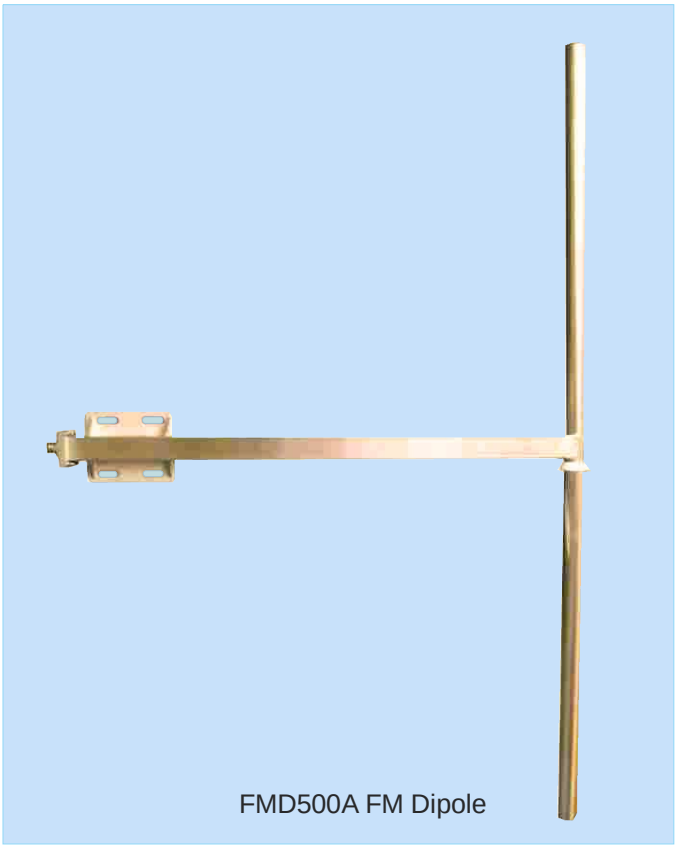
FMD500A
FM DIPOLE

FMD500A is a vertically polarised FM dipole for low to medium RF power applications in the VHF 88.7 to 108MHz band.

The FMD500A is constructed of high grade Aluminium, chromate treated, with 'O' ring seals making it robust for extended life in harsh conditions. External parts are D.C. grounded for lightning protection.

The dipole is supplied as a single antenna or in combination fo 2, 4, 6 or 8 vertical stacks with the appropriate power splitters and mounting hardware.

Refer to the splitter and mounting hardware on the rear page.

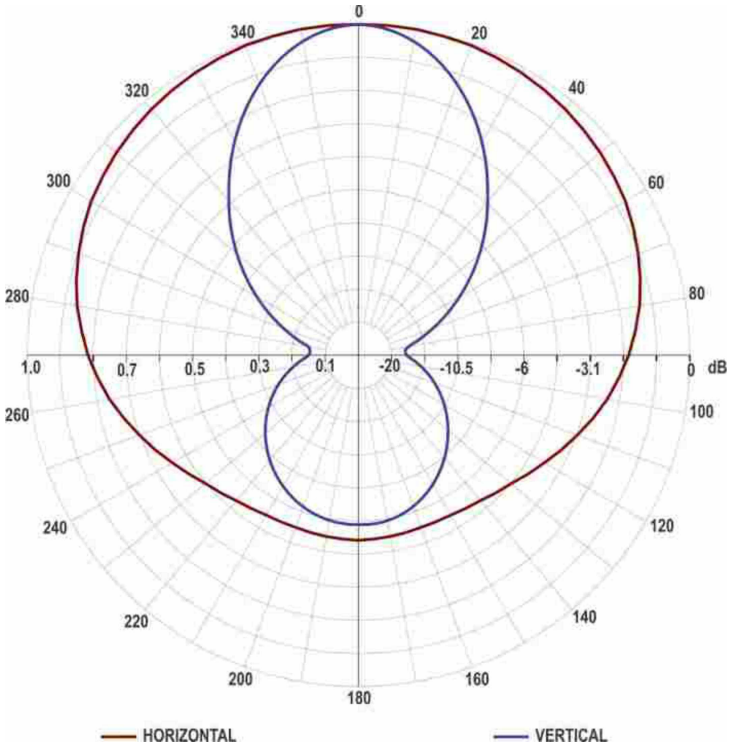


FMD500A FM Dipole

FMD500A DIPOLE SPECIFICATIONS

DIPOLE SPECIFICATIONS

Average Gain	0dBd(2.14dBi)
Horizontal Beamwidth	196°
Vertical Beamwidth	70°
VSWR	<1.25
Polarisation	Vertical
Rated Power	1kW
Impedance	50 Ohms
Connector	7/16" DIN female
Bandwidth	87-108MHz
Dimensions	1350 x 1050 x 50mm
Weight	5.5kg
Wind Load (160km/hr)	9kg
Mounting	Fixed Bracket 50mm /u-Bolt
Material	Aluminium (chromate treated, Teflon spacers

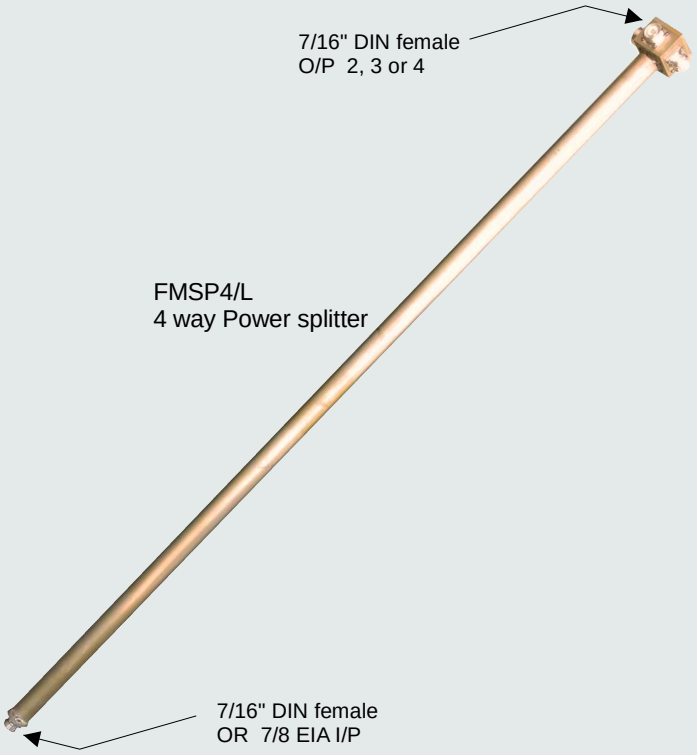


ANTENNA SYSTEMS

No. dipoles Vertically Stacked	Gain (dBd)	vertical aperture (meters)
2	3	4.05
3	4.5	6.2
4	6	9.45
6	8.2	14.85
8	9.5	20.25

P.T.O. SPLITTER AND MOUNTING EQUIPMENT

POWER SPLITTER AND MOUNTING EQUIPMENT

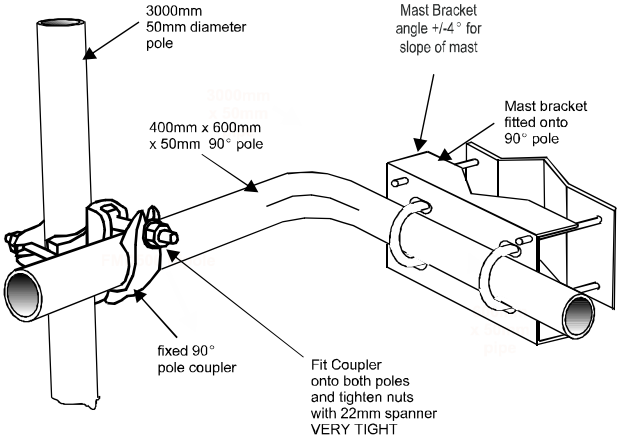


SPECIFICATIONS

FMSP2/L 2 Way
FMSP3/L 3 Way
FMSP4/L 4 Way
FMSP6/L 6 Way
FMSP3/L78 3 Way with 7/8" EIA I/P
FMSP4/L78 4 way with 7/8" EIA I/P

RF Power	7/16" I/P (max 2.5kW) 7/8" EIA I/P (max 5kW)
Impedance	50 ohms
Return Loss (dB)	> -22 to -26dB
Connector I/P	DIN 7/16" F & 7/8" EIA
Connector O/P	7/16" female
Frequency (MHz)	88 - 108MHz
VSWR	1.15dB across band
Dimensions (mm)	1605 x 38 x 38 (body) 104 x 104mm across connectors
Weight (kg)	8
Mounting	Splitter Brackets
Material:	Chromate treated Aluminium outer, Brass/copper Inner 'O' ring seals

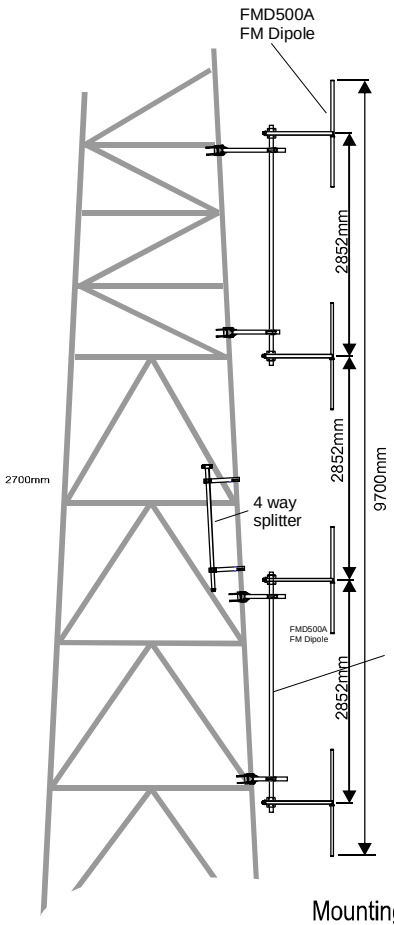
FM POWER SPLITTERS

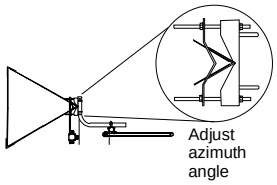


FITTING OF OFF-SET POLE USING 90° POLE COUPLER AND MAST BRACKET

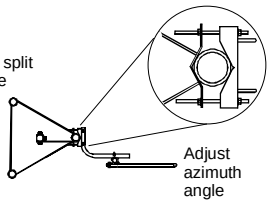
Typical mounting on sloping leg mast

Note: Mast Bracket can fit mast leg, round from 40 -120mm





Top View - Angle Iron Mast (not to scale)



Top View - Round leg Mast (not to scale)

DIPOLE MOUNTING BRACKETS

Mounting on sloping leg mast

Broadcast Solutions Electronics (Pty) Ltd
D15 Prime Park, Mocke road, Diep River, 7800, Cape Town South Africa, P.O.Box 31186, Tokai, 7966, Cape Town, South Africa.
Tel: +27-(0)21-7012491, Fax: +27-(0)21-7012597 Email: sales@bselec.com Website: www.bselec.com