



ANTENNA EXPERTS

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Model SMD-450

330 – 512 MHz.

3 dBd. Gain

UHF SIDE MOUNT DIPOLE ANTENNA

DESIGN FEATURES: The SMD-450 Side Mount Dipole Antenna is a robust antenna with low VSWR and high gain covering the entire band from 330-512 MHz. The side mount dipole antenna can be mounted on the side of a tower in Vertical polarization with the help of supplied stainless steel mounting hardware. The SMD-450 Side Mount Dipole Antenna operates at D.C. ground for protection against lightning and immunity to noise.

CONSTRUCTIONS: The SMD-450 side mount dipole consists of single folded dipole. The antenna maintains constant 3 dBd. gain and VSWR over its bandwidth of 30 MHz., making it highly suitable for single or multi-frequency radio systems. The N-Female antenna termination is fixed at a flying lead of RG-213 RF coaxial cable to ensure complete waterproofing and many years of maintenance free operation.



ELECTRICAL SPECIFICATIONS:

Frequency Range	330 - 512 MHz.
Gain	3 dBd.
Bandwidth	30 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Vertical Beam-width –Half Power Points	65 Degrees
Horizontal Beam-width -Half Power Points	160 Degrees
Front to Back Ratio	12 dB.
VSWR	1:1.5
RF Power Handling Capacity	250 Watts
Input Termination	N-Female
Lightning Protection	Direct Ground

MECHANICAL SPECIFICATIONS:

Materials	All Aluminum
Mounting Hardware -Materials	Stainless Steel
Wind Rating	200 Km/Hr.
Support Pipe Aluminum - Outer Diameter.	Aluminum - 38 mm
Dipoles Aluminum - O.D.	Aluminum - 12.7 mm
Shipping Box Size	0.45 x 0.20 Meter
Dipole Material	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Gross Weight	1.5 Kgs.

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Note: All information contained in the datasheet is subject to change without any prior notice.