



ANTENNA EXPERTS

E-mail: info@antennaexperts.in Website: www.antennaexperts.in

Model SMD-50

30 – 66 MHz.

3 dBd. Gain

VHF SIDE MOUNT DIPOLE ANTENNA

DESIGN FEATURES: The SMD-50 Side Mount Dipole Antenna is a robust antenna with low VSWR and high gain covering the entire band from 30-66 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-50 Side Mount Dipole Antenna operates at D.C. ground for protection against lightning and immunity to noise.

CONSTRUCTIONS: The SMD-50 side mount dipole consists of single folded dipole. The antenna maintains constant gain and VSWR over its bandwidth of 3%, making it highly suitable for single or multi-frequency 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	30 - 66 MHz.
Gain	3 dBd.
Bandwidth	3 %
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Vertical Beam-width –Half Power Points	75 Degrees
Horizontal Beam-width -Half Power Points	180 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	190 Km/Hr.
Support Pipe Aluminum - Outer Diameter.	Aluminum - 38 mm
Dipoles Aluminum - O.D.	Aluminum - 12.7 mm
Shipping Length	Depending on frequency
Dipole Material	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Gross Weight	10 Kgs.

ENVIRONMENTAL SPECIFICATIONS:

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