



# ANTENNA EXPERTS

E-mail: [info@antennaexperts.in](mailto:info@antennaexperts.in) Website: [www.antennaexperts.in](http://www.antennaexperts.in)

Model SMD-75

66 – 88 MHz.

3 dBd. Gain

## VHF SIDE MOUNT DIPOLE ANTENNA

**DESIGN FEATURES:** The SMD-75 Side Mount Dipole Antenna is a robust antenna with low VSWR and high gain covering the entire band from 66-88 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-75 Side Mount Dipole Antenna operates at D.C. ground for protection against lightning and immunity to noise.

**CONSTRUCTIONS:** The SMD-75 side mount dipole consists of single folded dipole. The antenna maintains constant gain and VSWR over its bandwidth of 5 MHz., 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	66 - 88 MHz.
Gain	3 dBd.
Bandwidth	5 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Vertical Beam-width –Half Power Points	65 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	200 Km/Hr.
Support Pipe Aluminum - Outer Diameter.	Aluminum - 38 mm
Dipoles Aluminum - O.D.	Aluminum - 12.7 mm
Shipping Length	2.2 x 0.60 Meters
Dipole Material	Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Gross Weight	4 Kgs.

### **ENVIRONMENTAL SPECIFICATIONS:**

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