



ANTENNA EXPERTS

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Model # SD6-75 66 – 88 MHz. 6dBd. Omni, 9dBd. Offset Gain

OMNI-DIRECTIONAL HIGH GAIN STACKED DIPOLE ARRAY

DESIGN FEATURES: The SD6-75 high performance VHF lower band stacked dipole array is designed for use with highly populated radio sites requiring long haul omni-directional coverage. The SD6-75 is heavy duty stacked dipole array features, wide bandwidth, high gain, high power handling capacity, low VSWR, low noise performance and null filling coverage with omni directional characteristics. This stacked dipole array is highly suitable as base station antennas, PMR, Repeater and Paging sites.

CONSTRUCTIONS: The SD6-75 Stacked Dipole Array consists of FOUR folded dipoles stacked vertically, fed in phase. This Stacked Dipole Antenna operates at D.C. ground for protection against lightning. Termination of phasing harness cable sealed by heat shrinking tube making stacked dipole antenna waterproofing. The 12 Meters long central mast for mounting the dipoles is shipped in four sections of 3 Meters each for easy of shipping. The stacked dipole antenna is suitable for side mounting on the tower and is supplied with mounting hardware of 1.35 Meters (4.5 feet) long two horizontal arms to hold the antenna on the side of the antenna tower.

RADIATION PATTERN: When the FOUR dipoles are arranged 90 degrees apart around the central mast, 6dBd. (8.15dBi) omni-directional radiation pattern results. Aligning the FOUR dipoles collinearly (facing in one direction) a 9dBd. (11.15dBi) offset radiation pattern is obtained. The radiation pattern can be changed in the field by use of common hand tools.



ELECTRICAL SPECIFICATIONS:

Frequency Range	66 - 88 MHz.
Gain	6 dBd. Omni or 9 dBd. Offset
Bandwidth	6 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	18 degrees
VSWR	1.5 : 1
RF Power Handling Capacity	500 watts.
Input Termination	N-Female
Lightning Protection	Direct Ground

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	12 Meters
Support Pipe Aluminum – Outer Diameter	51 mm
Dipoles Aluminum – Outer Diameter	12.7 mm
Shipping Length	3 Meters
4.5 Feet Long Horizontal Side Arms – 2 Nos.	Aluminum
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Gross Weight	45 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.