

MODEL A-SM44



ALUMINIUM UHF 4 STACK 9dBd SIDE MOUNT DIPOLE ARRAY 380-520 MHz

The A-SM44 (Aluminium) is a 9 dBd (11.2 dBi) gain 4 stack folded dipole antenna array. It covers the entire range from 380 MHz to 520 MHz. Mounted on a 50mm ϕ support pole with all antennas in the array at $\frac{1}{4}$ wave antenna to mast spacing producing a cardioid radiation pattern. All cabling, including phasing harness, running internally inside support pole thus reducing any damage resulting in otherwise exposed cabling.

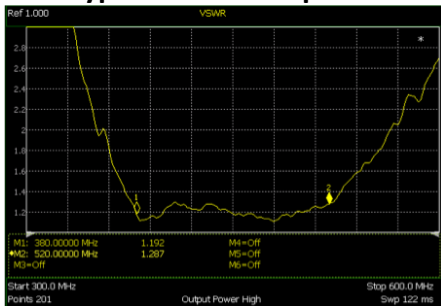
The antenna array is DC grounded for lightning protection and is vertically polarised

Product Specifications

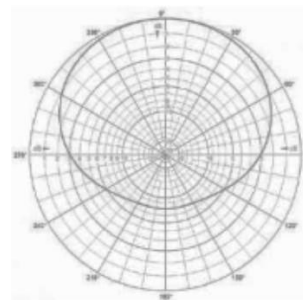
FREQUENCY	380 – 520 MHz
Bandwidth at VSWR 1.5:1	Entire Range
VSWR over operating range	Less than 1.5:1
Nominal Impedance	50 Ohm
Termination	800mm RG213 Cable tail to N type female
Power Rating	250 Watts
Polarization	Vertical
Gain	9 dBd (11.2 dBi) in direction of elements from support pole
H Plane	220 deg. Cardioid as typical of side mount dipole elements ($\frac{1}{4}$ wavelength spacing)
E Plane	16 deg. at -3dB points
Approx. Weight	6.9 Kg
Mounting	3000mm vertical support pole x 50mm ϕ
Construction	6000 Series Aluminium powder coated
Wind Loading at 160Kph	18.4 Kg
Protection	DC grounding via folded dipole element construction and by the phasing harness being run internally of mounting tube
Phasing Harness Availability	Internal 4 way



Typical VSWR Response



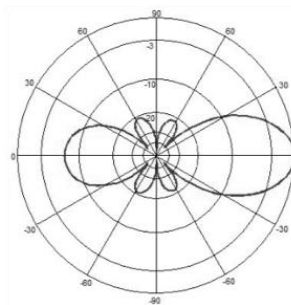
Typical H Plane Radiation Pattern



Typical Return Loss Response



Typical E Plane Radiation Pattern



Revision Date 30092021



Quality ISO 9001

