

## Omnidirectional dipole array, HPOL, 3 dBd, 450-470MHz

### DESCRIPTION

The S.H6 is a stacked 6 dipole array configured as 2 tiers of 3 horizontally mounted dipoles on support arms which are welded to an aluminium support boom. The antenna has been specifically designed for UHF telemetry systems where use of horizontally polarized omnidirectional antennas are required. Each folded dipole assembly is fed via a fully encapsulated assembly and the integrated combining network assemblies are also fully encapsulated in epoxy resin, totally preventing moisture ingress. The overall design of the antenna combines an extremely uniform radiation pattern across the frequency range with low VSWR and reduced wind loading characteristics within a compact design.

• Former Skymasts brand product.

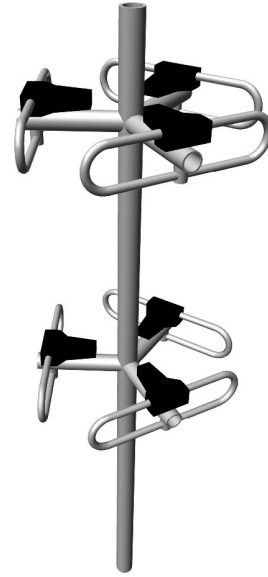
### SPECIFICATIONS

Electrical	
Frequency	450 - 470 MHz
Max. Input Power	250 W
Omni Deviation	< ± 0.5 dB
Polarisation	Horizontal
3 dB Beamwidth, E-Plane	38 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	2.8 dBd (5 dBi)
VSWR	< 1.5:1
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Elements	12.7 dia. x 1.6 mm wall aluminium alloy grade 6063T6
Connection(s)	N(f) on 3m RG213/U cable
Boom Material	48.4 mm dia. x 6.0 m wall aluminium alloy grade 6082T6
Fasteners	Stainless steel grade A2-70
Length	1500 mm / 59.06 in.
Element Clamps	Diecast Al / Zinc alloy
Wind Load	120 N (160km/h)
Weight	8 kg / 17.64 lb
Balun Encapsulant	Polyurethane Resin U-600

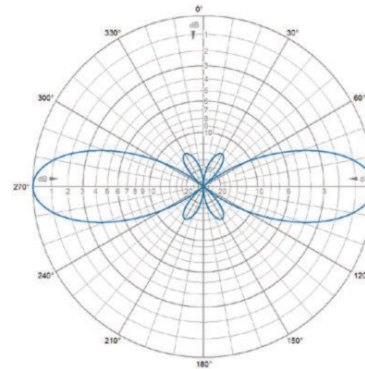
### ORDERING

Model	Product No.	Frequency
Omnidirectional dipole array, HPOL, 3 dBd, 450-470MHz	S.H6-460	450 - 470 MHz



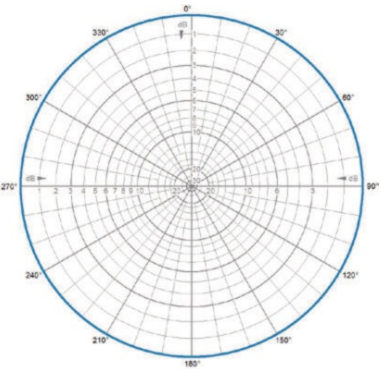
### DIAGRAM

RADIATION PATTERNS



E-Plane | 460 MHz

RADIATION PATTERNS



H-Plane | 460 MHz