

SMART ELECTRONICS COMMUNICATION

Delhi, INDIA

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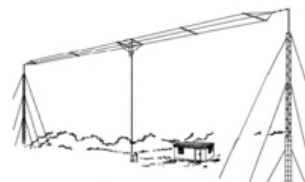
Model: S3HF

Frequency: 1.5 – 30 MHz

Gain: 3 dBi

HF THREE FOLD BROADBAND DIPOLE ANTENNA

DESIGN FEATURES: The S3HF Broad Band Dipole Omni directional Antenna offer optimum performance, fully automatic, low SWR operation over the entire HF band 1.5 – 30 MHz and suitable for transmitting, receiving or HF spectrum monitoring or surveillance. The HF broadband dipole antenna propagates NVIS, local, medium or long distance. This HF broadband dipole antenna is ready to go right out of the box, no taps to change frequency, nothing to tune - ever! Designed for the military and built to last. The S3HF can work any frequency you want without going through a lot of knob twirling and measurements to get a good VSWR match - just set your frequency and go!



CONSTRUCTIONS: The HF broadband antenna is designed by using three folded arms with a matching Balun. The HF broadband dipole antenna can be mounted either in an inverted “V” using a single mast, or in a standard dipole configuration (Horizontal Polarized) using two masts. The HF Broad Band Dipole Antenna provides optimum performance over complete HF band, eliminating the requirement of multiple antennas or an Antenna Tuning Unit.

ELECTRICAL SPECIFICATIONS:

Frequency Range	1.5 – 30MHz
Gain	3 dBi
Bandwidth	Full Band
Polarization	Horizontal or inverted “ V ”
Input Impedance	50 Ohms
Radiation Pattern	Omni Directional
VSWR	≤ 2.5 : 1
RF Power Handling Capacity	500 Watts or upto 1KW with matched Resistance box
Input Termination	N-Female or UHF-female
Lightning Protection	Direct Ground

MECHANICAL SPECIFICATIONS:

Net Weight	4.5 Kg (Antenna Only)
Overall Length	29 Meters
Shipping Box Size	0.65 x 0.15 x 0.15 Meter
Wind Rating	150 Km/Hr.
Balun Base Diameter	65 mm (Balun)
Base Material	Nylon (Balun)
Dipole material	Twisted Copper with Insulator
Spreaders Material	PVC Pipe
Insulator Material	Nylon
Recommended Mast Height	9 Meters (30 Feet)
Distance between Mast	25-30 Meters

ENVIRONMENTAL SPECIFICATIONS:

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

Note: All information contained in the datasheet is subject to change without any prior notice.