

# HF10 Series – 1kW HF Wide Band Antenna Matching Transformer

**The HF10 Series of antenna matching transformers are fully encapsulated heavy duty units designed for the most arduous environmental conditions.**

The transformers are housed in a cast aluminium case, vacuum impregnated with epoxy resin and finished in epoxy paint for added protection. High purity alumina ceramic insulators with arcing horns are fitted as standard and an integral static drain to earth provides additional protection against lightning induced EMFs.

For added EMP proof operation no capacitors are used in the transformer circuit. A wide selection of unbalanced and balanced impedance ratios are available to complement most antenna configurations and enquiries for non-standard arrangements are welcome. No compromise has been made to provide a unit of the highest standard of reliability.

## Key Features

- Wide band 1.5 to 32 MHz
- 1 kW average, 4kW PEP
- All weather solid encapsulated
- Fixed station or transportable antenna arrays



Spec	Information
Frequency	1.5 - 32 MHz
Power	400 Watt average, 1600 Watt peak
Insertion loss	Less than 0.3 dB
VSWR	Less than 1.2:1 (2 - 30 MHz), Less than 1.3:1 (1.5 - 32 MHz)
Balance ratio	Greater than 26 dB
Max Load VSWR	2.5:1
Coaxial connectors	'N' type (Others on request)
Balance terminals	PTFE
Temperature range	-40°C to +55°C
Weight	1.2kg gross
High voltage protection	Arcing horns and internal static drain (NB No internal capacitors fitted.)
Configuration	Cast aluminium case (LM25). Hermetically sealed. Epoxy paint finish.
Shipping dimensions	220 x 150 x 120 mm approx.

## Balanced Impedance (ohm)

Unbalanced impedance (ohm)	50	75	100	200	300	370	450	600
50	HF10-55	HF10-57	HF10-510	HF10-520	HF10-530	HF10-537	HF10-545	HF10-560
75	HF10-75	HF10-77	HF10-710	HF10-720	HF10-730	HF10-737	HF10-745	HF10-760

