

HF30 Series – 3kW HF Wide Band Antenna Matching Transformer

The HF30 series of antenna matching transformers are solid encapsulated heavy duty units suitable for the most arduous environmental conditions and designed for installation in any orientation.

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. An internal static drain to earth provides additional protection against lightning induced EMFs.

- Wide band 1.5 to 32 MHz
- 3 kW average, 12kW PEP
- All weather solid encapsulated
- Heavy duty cast aluminium case

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. The HF30 is a unit of the highest quality and reliability.



Spec	Information
Frequency	1.5 - 32 MHz
Power	3 kW average, 12kW 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	7/8" EIA (Others on request)
Balance terminals	PTFE
Temperature range	-40°C to +55°C
Weight	14kg 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	320 x 300 x 140 mm approx.

Balanced Impedance (ohm)

Unbalanced impedance (ohm)	50	75	100	200	300	370	450	600
50	HF30-55	HF30-57	HF30-510	HF30-520	HF30-530	HF30-545	HF30-560	HF10-560
75	HF30-75	HF30-77	HF30-710	HF30-720	HF30-730	HF30-745	HF30-760	HF10-760

