

HF300 Series – 30kW HF Wide Band Antenna Matching Transformer

The HF300 series are 30 kW average power silicone cooled transformers suitable for communication or broadcast systems.

The units are housed in a finned cast aluminium tank which provides excellent natural convection cooling. Each casting is subjected to a double vacuum resin impregnation process which ensures complete sealing for the internal low loss silicone cooling oil.

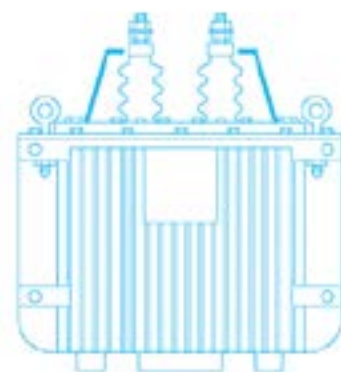
High purity alumina ceramic insulators with arcing horns are fitted as standard and an integral static drain to earth provides additional protection against lightning induced high voltages.

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 HF300 is a high quality unit suitable for unprotected operation in any environment. The HF300 Series supersedes all Minns "Y" types of 30kW transformers.

Key Features:

- Wide band 1.5 to 32 MHz
- 30 kW average + 100% AM modulation
- Suitable for communications or broadcast applications
- Very high efficiency
- All weather unprotected operation



Spec	Information
Frequency	1.5 - 32 MHz
Power	30 kW average + 100% AM modulation
Insertion loss	Less than 0.2 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	3 1/8" EIA
Balance terminals	PTFE
Temperature range	-40°C to +55°C
Weight	120kg gross
High voltage protection	Arcing horns and internal static drain
Configuration	Cast aluminium case (LM25). Hermetically sealed. Epoxy paint finish.
Shipping dimensions	1000 x 700 x 550 mm approx.

Balanced Impedance (ohm)								
Unbalanced impedance (ohm)	50	75	100	200	300	370	450	600
50	HF300-55	HF300-57	HF300-510	HF300-520	HF300-530	HF300-537	HF300-545	HF300-56

