

HFM2-1 - 2 x 1kW HF Transmitter Multicoupler

The HFM2-1 is a high-performance 2 x 1kW HF Transmitter Multicoupler designed to optimize transmitter powers while ensuring excellent signal isolation in various applications.

Transmitter multicouplers utilising low loss filter networks enable multiple transmitters to work into a common antenna. Computer aided design techniques provide optimum performance from conventional LC circuits which allows transmitters to work at close separations of 40%, 20% or optionally 15%.

System losses are low, typically less than 0.3dB and rejection of the adjacent transmitter above 30dB. The HFM2-1 series are suitable for 19" rack mounting and do not require additional forced air cooling.

Models can be supplied with various notch widths and we will be pleased to advise on the most economical solution to your problems.

Broad band hybrid combiners play a crucial role in combining or splitting transmitter powers while maintaining isolation between separate signal paths, resulting in seamless and efficient operations.



Spec	HFM2-1 - 2 x 1 kW HF Transmitter Multicoupler
Connectors	'N', 'HN', 7/8" EIA, 7/16" Spinner
Cross Cover Frequency	Notch centre to be specified between 3-18MHz (lower notch centres available)
Environment	Indoor -40°C to +55°C (natural convection)
Frequency	0.1 - 32MHz
Impedance	50 ohm
Insertion Loss	<0.3 dB (matched load)
Isolation	>30 dB (matched load)
Load VSWR	3 : 1 max
Notch Width	15%, 20%, 40% of cross over frequency
Power	2 input channels each 1kW average (2kW peak) 1 output channel 2kW average (4kW peak)
VSWR	<1.2 : 1 (matched loads)
Weight (kg)	15kg

