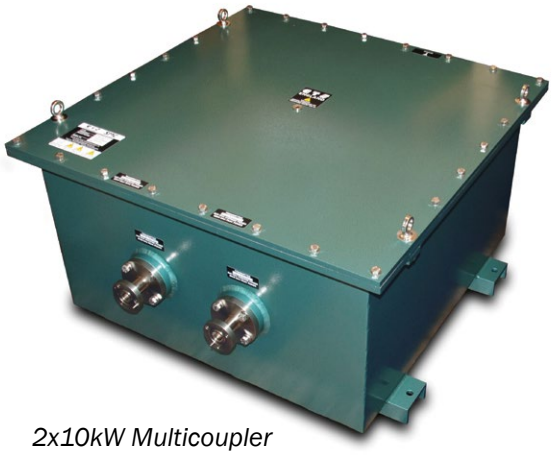


2x10kW Multicoupler

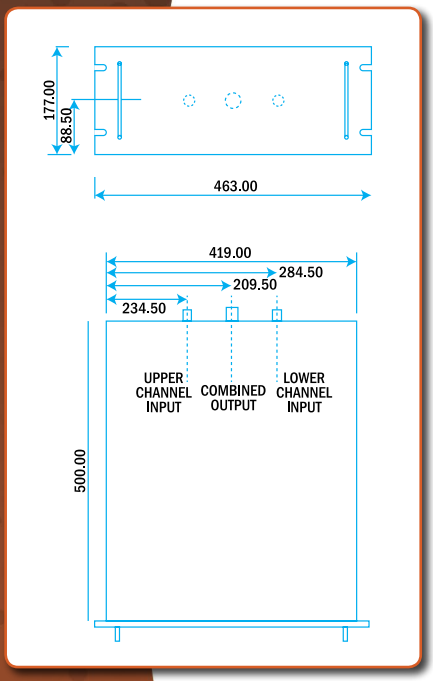
Multicouplers

HFM2-1 - 2 x 1 kW HF Transmitter Multicouplers

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 that 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.

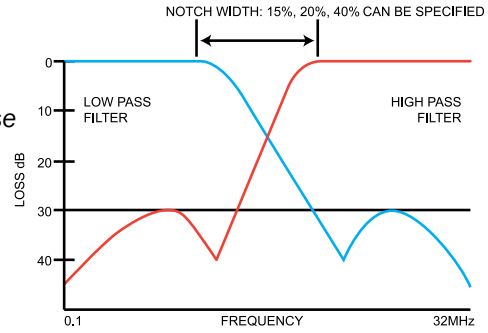
Models can be supplied with various notch widths and we will be pleased to advise on the most economical solution to your problems.

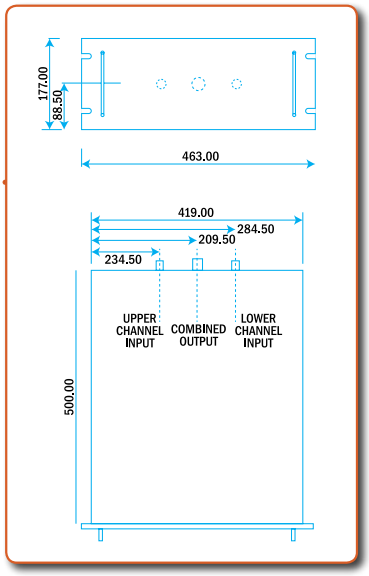


Technical Specs.	
Frequency:	0.1 - 32MHz
Impedance:	50 ohms
VSWR:	<1.2: 1 (matched loads)
Insertion Loss:	<0.3dB (matched load)
Isolation:	>30dB (matched load)
Load VSWR:	3:1 max
Weight:	15kg
Notch Width:	15%, 20%, 40% of cross over frequency
Cross Cover Frequency:	Notch centre to be specified between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

All specifications are that of typical performance.

Typical Response





HFM2-2 - 2 x 2 kW HF Transmitter Multicouplers

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 0.3 dB and rejection of the adjacent transmitter above 30 dB. The HFHM2-2 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.

Technical Specs.	
Frequency:	0.1 - 32MHz
Impedance:	50 ohms
VSWR:	<1.2: 1 (matched loads)
Insertion Loss:	<0.3dB (matched load)
Isolation:	>30dB (matched load)
Load VSWR:	3:1 max
Weight:	17kg
Notch Width:	15%, 20%, 40% of cross over frequency
Cross Cover Frequency:	Notch centre to be specified between 3-18MHz (lower notch centres available)
Environment:	Indoor -40°C to +55°C (natural convection)
Connectors:	'N', 'HN', 7/8" EIA, 7/16" Spinner
Power:	2 input channels each 2kW average (4kW peak) 1 output channel 4kW average (8kW peak)

All specifications are that of typical performance.

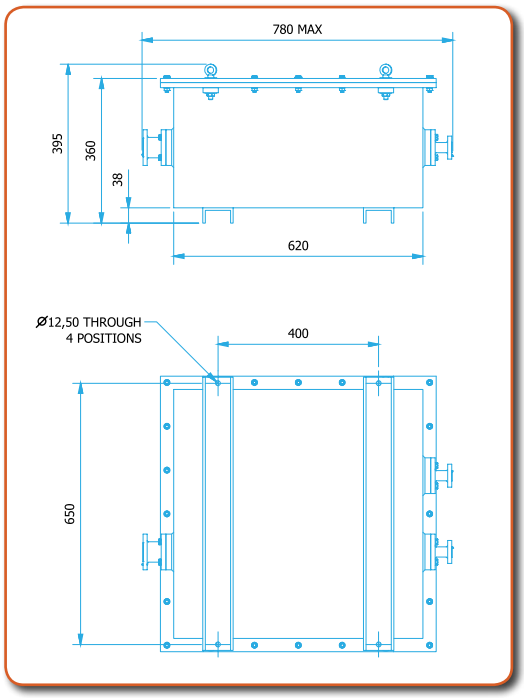
Multicouplers

HFM2-5 - 2 x 5 kW HF Transmitter Multicouplers

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 0.3 dB and rejection of the adjacent transmitter above 30 dB. The HFHM2-5 series are suitable for 19" rack mounting and do not require additional forced air cooling.

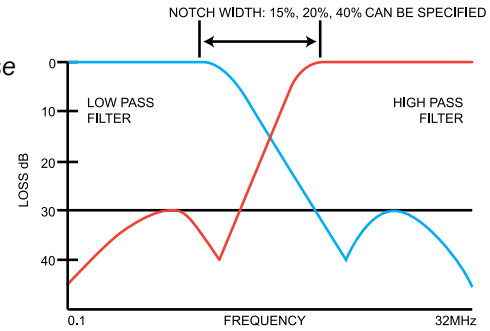
Models can be supplied with various notch widths and we will be pleased to advise on the most economical solution to your problems.



Technical Specs.	
Frequency:	0.1 - 32MHz
Impedance:	50 ohms
VSWR:	<1.2: 1 (matched loads)
Insertion Loss:	<0.3dB (matched load)
Isolation:	>30dB (matched load)
Load VSWR:	3:1 max
Weight:	150kg approx
Notch Width:	15%, 20%, 40% of cross over frequency
Cross Cover Frequency:	Notch centre to be specified between 3-18MHz (lower notch centres available)
Environment:	Outdoor unprotected -40°C to +55°C natural convection Silicone oil cooled natural convection
Connectors:	7/8", 1 5/8" EIA, LC
Power:	2 input channels each 20 kW average (40kW peak) 1 output channel 40 kW average (80kW peak)

All specifications are that of typical performance.

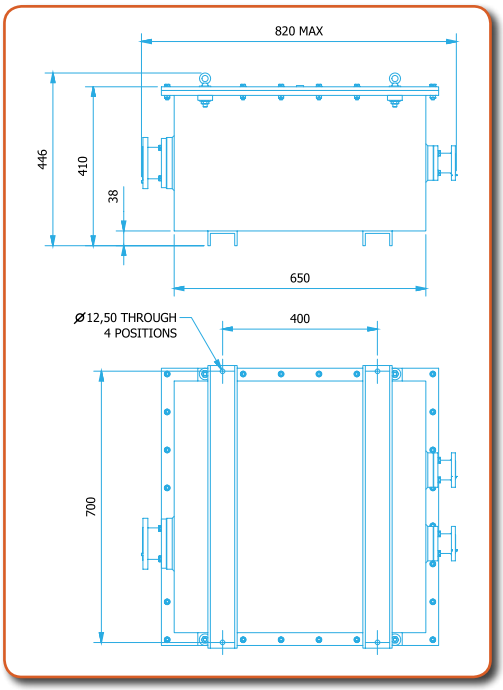
Typical Response



HFM2-10 - 2 x 10 kW HF Transmitter Multicouplers

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

System losses are low, typically less than 0.3 dB and rejection of the adjacent transmitter greater than 30 dB.



Technical Specs.	
Frequency:	0.1 - 32MHz
Impedance:	50 ohms
VSWR:	<1.2: 1 (matched loads)
Insertion Loss:	<0.3dB (matched load)
Isolation:	>30dB (matched load)
Load VSWR:	3:1 max
Weight:	250kg approx
Notch Width:	15%, 20%, 40% of cross over frequency
Cross Cover Frequency:	Notch centre to be specified between 3-18MHz (lower notch centres available)
Environment:	Outdoor unprotected -40°C to +55°C. Silicone oil cooled natural convection
Connectors:	1 5/8", 3 1/8" EIA
Power:	2 input channels each 20 kW average (40kW peak) 1 output channel 40 kW average (80kW peak)

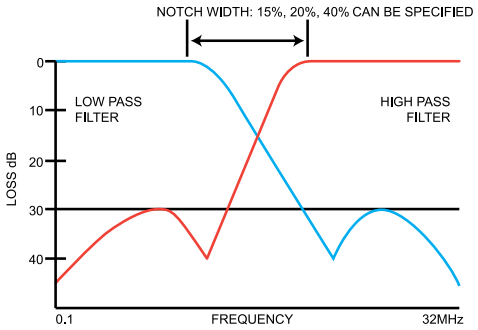
All specifications are that of typical performance.

Multicouplers

HFM2-20 - 2 x 20 kW HF Transmitter Multicouplers

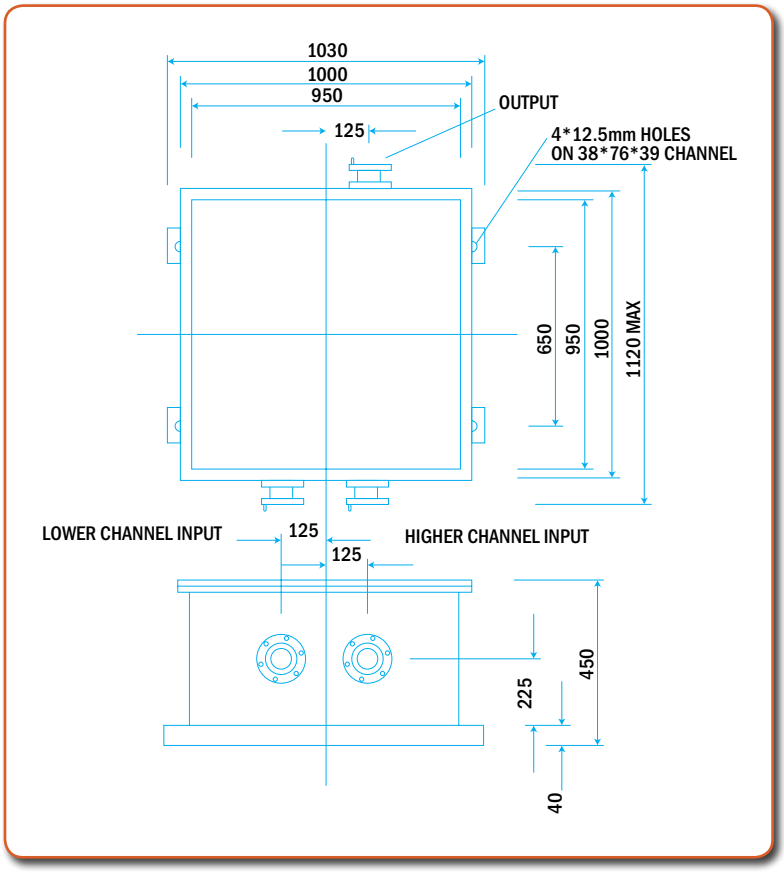
Transmitter multicouplers utilising low loss filter networks enable multiple transmitters to work into a common antenna. Computer aided design techniques provide optimum performance from passive LC circuits which allows transmitters to work at close separations of 40%, 20% or optionally 15%.

System losses are low, typically less than 0.3dB and rejection of the adjacent transmitter greater than 30 dB.



Technical Specs.	
Frequency:	0.1 - 32MHz
Impedance:	50 ohms
VSWR:	<1.2: 1 (matched loads)
Insertion Loss:	<0.3dB (matched load)
Isolation:	>30dB (matched load)
Load VSWR:	3:1 max
Weight:	250kg approx
Notch Width:	15%, 20%, 40% of cross over frequency
Cross Cover Frequency:	Notch centre to be specified between 3-18MHz (lower notch centres available)
Environment:	Outdoor unprotected -40°C to +55°C. Silicone oil cooled natural convection
Connectors:	1 5/8", 3 1/8" EIA
Power:	2 input channels each 20 kW average (40kW peak) 1 output channel 40 kW average (80kW peak)

All specifications are that of typical performance.



Diplexer

HFM2-2A - HF Diplexer

The diplexer is a passive, 3-port network which splits RF signals between separate inputs of a broadband antenna.

Technical Specs.	
Input Power:	1.5 kW average (4 kW peak)
Input Frequency:	1.6 - 30 MHz
Output 1:	1.6 - 9 MHz
Output 2:	9 - 30 MHz
Roll Off:	
Output 1:	at 10MHz - 9 dB
Output 2:	at 8 MHz - 9 dB
Insertion Loss:	<0.3dB
Input VSWR:	<1.2 : 1
Load VSWR:	Up to 6 : 1
Temperature Range:	-10°C to +55°C (operational) -40°C to +70°C (storage)
Configuration:	19" rack, 3 units high

All specifications are that of typical performance.