VHF24532/SYS-100

Compact Combining System

Electrical Specifications

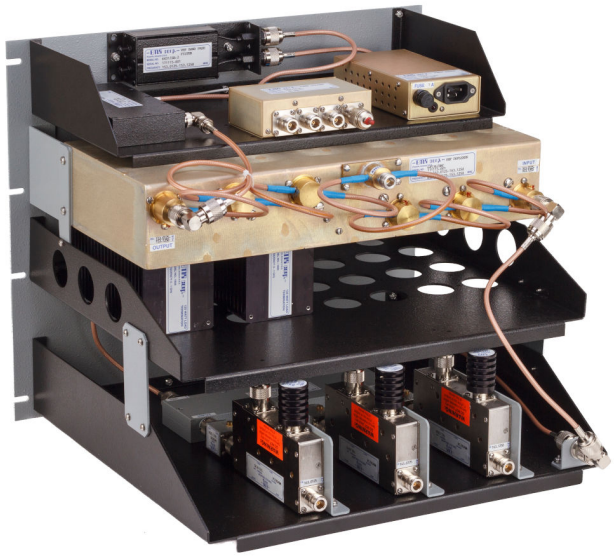
Frequency Band	150-174 MHz
Number of Channels	3
Power Per Channel (Max.)	100 W
Insertion Loss Tx (Typ.)	7.5 dB
Passband Tx/Rx	600 kHz
Return Loss I/O (Max.)	20 / 18 dB
Stopband Tx-Rx	> 4 MHz
Isolation Ant-Tx (Min. / Typ.)	60 / 70 dB
Isolation Tx-Tx (Min. / Typ.)	80 / 90 dB
Isolation Tx-Rx (Min. / Typ.)	70 / 80 dB
Isolation Rx-Tx (Min. / Typ.)	70 / 80 dB
Rx Multicoupler Amp	Bipolar
Amplifier Gain (Max.)	38 dB @ 160 MHz
Amplifier Gain Adjust	Variable
Amplifier Current Draw	200 mA
Amplifier Bias Voltage	13.6 VDC
Amplifier Noise Figure	2.8 dB
System Voltage	100-240 VAC (Optional 12 / 24 / 48 VDC)
System NF (Typ.)	5.0 dB
Tx Bandpass Filter	Optional
Impedance (Nom.)	50 Ω
RF Connectors	BNC Female (Rx), N Female (Ant.), N Female (TX)

Mechanical Specifications

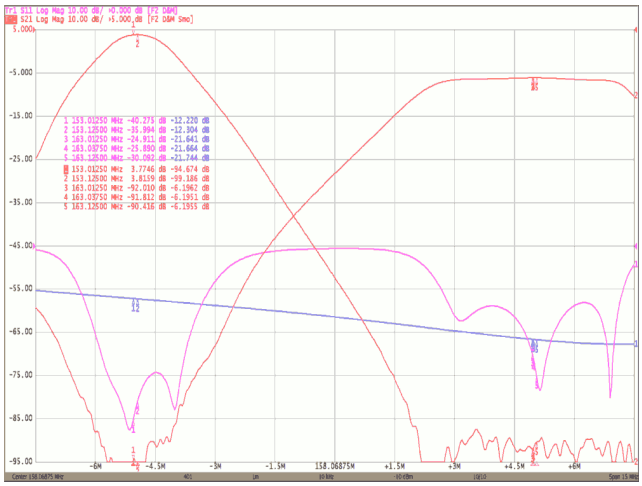
Finish	Gray Panel
Rack Mount	19" EIA
Rack Units	9 RU
Overall Size (HxWxD)	15.75" x 19" x 17" (400 x 483 x 432 mm)
Net Weight	42 lbs (19.1 kg)
Ship Weight	53 lbs (24 kg)

Environmental Specifications

Operating Temp. Range	-22 to 140 °F (-30 to +60 °C)
Operating Humidity Range	90% Non-condensing



EMR SYS Series Compact Combiners are single antenna systems including a transmitter combiner, receiver multicoupler and antenna duplexer. Using hybrid-ferrite technology a wide variety of difficult to combine frequencies can be shared on a common antenna. These systems are available in 25W, 50W and 100W versions delivered ready for operation with no on-site tuning or adjustment required. Contact the factory for systems in different frequency bands with narrowed or expanded filter bandwidths and complex specialized combining.



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