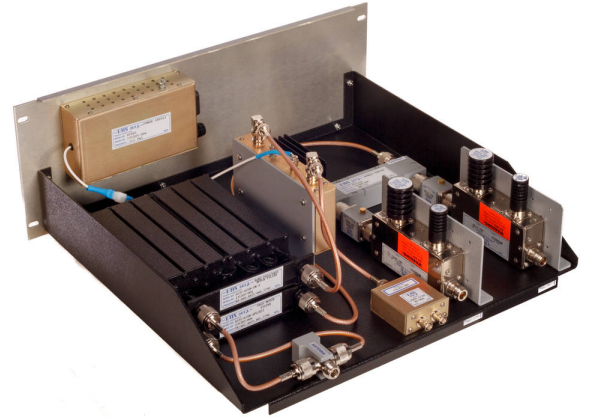


Compact Combining System

Electrical Specifications

Frequency Band	300-650 MHz
Number of Channels	2
Power Per Channel (Max.)	50 W
Insertion Loss Tx (Typ.)	5.75 dB
Passband Tx/Rx (Max.)	1 MHz
Return Loss I/O (Max.)	20 / 18 dB
Stopband Tx-Rx (Min.)	4.0 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
Rx Multicoupler Amp	Included
Amplifier Gain (Max.)	30 dB @ 460 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)



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.

Mechanical Specifications

Finish	Gray Panel
Rack Mount	19" EIA
Rack Units	4 RU
Overall Size (HxWxD)	5.25" x 19" x 17" (133 x 483 x 432 mm)
Net Weight	20 lbs (9.1 kg)
Ship Weight	27 lbs (12.2 kg)

Environmental Specifications

Operating Temp. Range	-22 to 140 °F (-30 to +60 °C)
Operating Humidity Range	90% Non-condensing
Storage Temp. Range	-40 to +100 °C

