

RTC5800RA-1 Combiner, trunking, compact, 5 channels, 1 MHz separation, 806-824 MHz

- Support frequency spacings down to 1 MHz
- 125 watts continuous power per channel - 200 watt high power versions available
- Fits easily into 19 inch rack - only 49 inches vertical height in 20 channel configuration

These compact transmitter combiners utilize Res-Lok construction and high-performance dual isolators in a configuration that assures easy expandability and field tuning utilizing the test ports provided. Developed for operation in the 851-869 trunking frequency band, these highly versatile combiners are available in expandable 5- and 10-channel models, and a fully expanded 20-channel version. Different versions are available which optimize performance at frequency spacings of 1 MHz (RA series), 500 kHz (RB series) and 250 kHz (RC series). Insertion loss varies with frequency spacing; factory settings are specified. In addition, the new 'HP' versions can handle up to 200 Watts per channel at the spacings shown below. LC or 7/8-inch EIA connectors are required for 10- and 20-channel HP1 and HP2 antenna outputs. All models are easily mounted in a standard 19-inch rack utilizing only 49 inches of vertical space in the fully expanded 20-channel configuration



Application Notes

- For 100% duty cycle operation order the RTC "HP" version

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Product Specification Sheet		RTC5800RA-1	Issue: 100	Dated: 08-10-13

Electrical Specifications

Frequency Range	MHz	806 to 824
Input VSWR (max)		1.25:1
Input Connectors		N-Female
Output Connectors		N-Female
Power (Per Channel)	W	125
Insertion loss Tx to antenna (typ)	dB	2.6
Isolation Tx to Tx	dB	70
Isolation antenna to Tx	dB	60
Minimum Channel Spacing	MHz	1
Output VSWR		2:1
Number of channels		5

Mechanical Specifications

Depth	in (mm)	15 (381)
Length/ Height	in (mm)	12.25 (311)
Width	in (mm)	19 (483)
Weight	lbs (kg)	50 (22.7)
Actual Shipping weight	lbs (kg)	55 (24.97)
Shipping dimensions	in (mm)	24x17x21 (610x432x533)

Environmental Specifications

Temperature range	°F (°C)	-22 to +140 (-30 to +60)
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Ordering Information

RA = 1 MHz separation with insertion loss of 2.6 dB
 RB = 0.5 MHz separation with insertion loss of 2.8 dB
 RC = 0.25 MHz separation with insertion loss of 3.5 dB

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