

**RTC5800RB-1** Combiner, trunking, compact, 5 channels, 0.5 MHz separation, 806-824 MHz

- Supports 500 KHz channel spacings
- 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
<b>Telephone</b>	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		RTC5800RB-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	2.8
Isolation Tx to Tx	dB	70
Isolation antenna to Tx	dB	60
Minimum Channel Spacing	MHz	0.5
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)	22x15x19 (559x381x483)

### 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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