

RTC10800RB-1 Compact Trunking Transmitter Combiner, 10 Channels, 806-824MHz

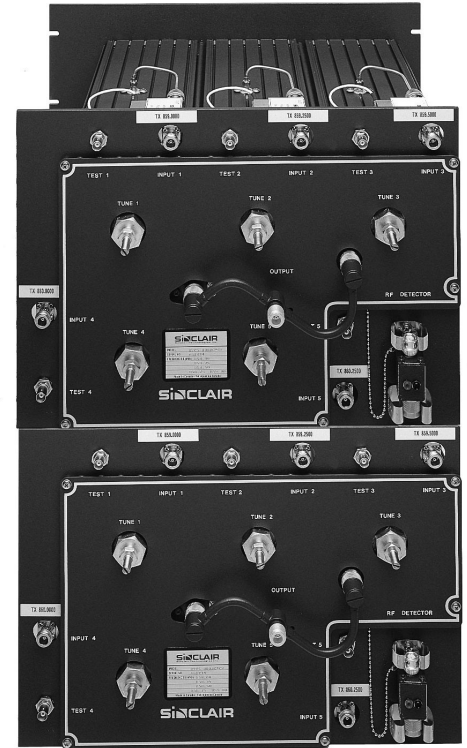
- Supports frequency spacings down to 500 KHz
- 125 watts continuous power per channel
- Fits easily into 19 inch rack - only 49 inches vertical height in 20 channel configuration

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 806-824 and 851-869 trunking frequency bands, 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. Sinclair has adapted its proven 'RTC' series technology for the 406-512 MHz bands where trunking is now available in some countries. Different versions are available for optimal performance at 1MHz (RA series), 500 kHz (RB series) and 250 kHz (RC series) minimum channel spacing.

Application Notes

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



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Product Specification Sheet		RTC10800RB-1	Issue: 98	Dated: 09-03-18

Electrical Specifications

Frequency Range	MHz	806 to 824
Number of channels		10
Input Connectors		N-Female
Output Connectors		N-Female
Input VSWR (max)		1.25:1
Output VSWR		2:1
Insertion loss (typ) Tx to Ant	dB	3.1
Power (Per Channel)	W	125
Minimum Channel Spacing	MHz	0.5
Isolation Tx to Tx	dB	70
Isolation antenna to Tx	dB	60

Notes

*1 : 2 packages

Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	15 (381)
Length/ Height	in (mm)	24.5 (622)
Weight	lbs (kg)	105 (47.67)
Actual shipping weight	lbs (kg)	110 (49.94)
Shipping dimensions	in (mm)	22x15x19 (559x381x483)

Ordering Information

RA = 1 Mhz separation with insertion loss of 2.4 dB
 RB = 0.5 Mhz separation with insertion loss of 3.1 dB
 RC = 0.25 Mhz separation with insertion loss of 4.3 dB

Environmental Specifications

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