

**RTC5400RB** Combiner, trunking, compact, 5 channels, 0.4 MHz separation, 406-470 MHz

- Supports 400 KHz channel spacings with I.L. of 3.4 dB
- Utilizes only 49 inches of vertical height in fully expanded 20 channel configuration
- Fits easily into standard 19 inch rack

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 406-470 MHz trunking frequency band, these highly versatile combiners are available in expandable 5 or 10 channel models.

All models are easily mounted in a standard 19-inch rack.

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 800 kHz (RA series), 400 kHz (RB series) and 200 kHz (RC series) minimum channel spacing. Insertion loss varies with frequency spacing; factory settings are specified.



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Product Specification Sheet EPR 015933		RTC5400RB	Issue: 8	Dated: 08-10-13 Dated: 27-09-13

### Electrical Specifications

Frequency Range	MHz	406 to 470
Input VSWR (max)		1.25:1
Input Connectors		N-Female
Output Connectors		N-Female
Power (Per Channel)	W	125
Insertion loss (max) Tx to Ant	dB	3.4
Isolation Tx to Tx	dB	70
Isolation antenna to Tx	dB	60
Minimum Channel Spacing	MHz	0.4
Output VSWR		2:1
Number of channels		5

### Mechanical Specifications

Depth	in (mm)	14.5 (368)
Length/ Height	in (mm)	12.25 (311)
Width	in (mm)	19 (483)
Weight	lbs (kg)	49 (22.25)
Actual Shipping weight	lbs (kg)	50 (22.7)
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 = 0.8 MHz separation with insertion loss of 2.6 dB, RB = 0.4 MHz separation with insertion loss of 3.4 dB, RC = 0.2 MHz separation with insertion loss of 4.5 dB

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