

RTC5800RB-2 Combiner, trunking, compact, 5 channels, 0.5 MHz separation, 851-869 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 |
|-----------------------------|-----------------------|--------------------------------------|--------------------------------|--|
| Telephone | 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 |
| E-mail | salesusa@sinctech.com | salesuk@sinctech.com | salesla@sinctech.com | salescan@sinctech.com |
| Product Specification Sheet | | RTC5800RB-2 | Issue: 100 | Dated: 08-10-13 |

Electrical Specifications

| | | |
|------------------------------------|-----|------------|
| Frequency Range | MHz | 851 to 869 |
| 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) |
|-------------------|---------|--------------------------|

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

| Region | United States | Europe, Middle East and Africa | Caribbean and Latin America | Canada and rest of the world |
|-----------------------------|-----------------------|--------------------------------------|--------------------------------|--|
| Telephone | 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 |
| E-mail | salesusa@sinctech.com | salesuk@sinctech.com | salesla@sinctech.com | salescan@sinctech.com |
| Product Specification Sheet | | RTC5800RB-2 | Issue: 100 | Dated: 08-10-13 |