

# VHF REPEATER COMBINING SYSTEMS

## 136 - 174 MHz

**RTC15 Series**

### Product Features

- Complete combining system
- 2, 3, 4, 5, 6, 7 and 8 channels
- High port-to-port isolation
- Single junction isolators
- Broadband isolators design
- Adjustable Rx Gain



RTC15-5A0



### Specification

### RTC15-xB1

Type	Repeater Combining System	
Frequency band	136 - 174 MHz	
Number of channels	2, 3, 4, 5, 6, 7 or 8 (replace "x" on model number)	
Tx insertion loss, max	2 channels	5.5dB
	3 channels	8.5 dB
	4 channels	8.5 dB
	5 channels	10.5 dB
	6 channels	11.5 dB
	7 channels	11.5dB
	8 channels	11.5dB
Ferrite Isolator type	Dual Junction	
Tx - Rx separation	5MHz min	
Tx and Rx BW	600 KHz for Tx - Rx separation of 5 MHz 2 MHz for Tx - Rx separation of 10 MHz	
Rx gain	From -20 to +6dB, user adjustable	
Rx LNA OIP3	>+27dBm	
Overall Noise Figure	< 2.5 dB	
Tx to Tx isolation	> 75dB	
Tx to Rx isolation	> 85dB	
Rx to Rx isolation	> 20dB	
Tx max input power	100W per channel	
Return loss, all ports	17dB min	
Impedance, in/out	50 Ω	
Connectors	N(f)	
Temperature range	14° to 122° F • -10° to +50° C	
AC Power	110/220VAC, 50/60Hz	
Dimensions	Up to 4 ch	19 x 5.2 x 15.7 inches • 483 x 133.35 x 400 mm
	From 5 to 8 ch	19 x 10.5 x 15.7 inches • 483 x 266.7 x 400 mm
Weight	Up to 4 ch	<44 lbs • <20 kg
	From 5 to 8 ch	<66 lbs • <30 kg

DOC TK070.02 - 27122017  
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