

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-xA0-y		RTC15-xB1-y
Type	Repeater Combining System		Repeater Combining System
Frequency band	136 - 174 MHz, in 8MHz sub bands		136 - 174 MHz, in 8MHz sub bands
Subranges (replace "y" by subranges code)	134-142 ("1") 142-150 ("2") 150-156 ("3") 156-166 ("4") 166-174 ("5")		134-142 ("1") 142-150 ("2") 150-156 ("3") 156-166 ("4") 166-174 ("5")
Number of channels	2, 3, 4, 5, 6, 7 or 8 (replace "x" on model number)		2, 3, 4, 5, 6, 7 or 8 (replace "x" on model number)
Tx insertion loss, max	2 channels	5 dB	5.5dB
	3 channels	8 dB	8.5 dB
	4 channels	8 dB	8.5 dB
	5 channels	10dB	10.5 dB
	6 channels	11dB	11.5 dB
	7 channels	11dB	11.5dB
	8 channels	11dB	11.5dB
Ferrite Isolator type	Single Junction		Dual Junction
Tx - Rx separation	5MHz min		5MHz min
Tx and Rx BW	600 KHz for Tx - Rx separation of 5 MHz 2 MHz for Tx - Rx separation of 10 MHz		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		From -20 to +6dB, user adjustable
Rx LNA OIP3	>+27dBm		>+27dBm
Overall Noise Figure	< 2.5 dB		< 2.5 dB
Tx to Tx isolation	> 60dB		> 75dB
Tx to Rx isolation	> 70dB		> 85dB
Rx to Rx isolation	> 20dB		> 20dB
Tx max input power	50W per channel		100W per channel
Return loss, all ports	17dB min		17dB min
Impedance, in/out	50 Ω		50 Ω
Connectors	N(f)		N(f)
Temperature range	14° to 122° F • -10° to +50° C		14° to 122° F • -10° to +50° C

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RTC15 Series

Specification		RTC15-xA0-y	RTC15-xB1-y
AC Power		110/220VAC, 50/60Hz	110/220VAC, 50/60Hz
Dimensions	Up to 4 ch	19 x 5.2 x 15.7 inches • 483 x 133.35 x 400 mm	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	19 x 10.5 x 15.7 inches • 483 x 266.7 x 400 mm
Weight	Up to 4 ch	<44 lbs • <20 kg	<44 lbs • <20 kg
	From 5 to 8 ch	<66 lbs • <30 kg	<66 lbs • <30 kg

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