

UHF REPEATER COMBINING SYSTEMS

380 - 512 MHz

RTC 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



Specification		RTC38-xB1	RTC45-xB1
Type		Repeater Combining System	Repeater Combining System
Frequency band		380 - 450 MHz	450 - 512 MHz
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	5.5 dB	5.5dB
	3 channels	8.5 dB	8.5 dB
	4 channels	8.5 dB	8.5 dB
	5 channels	10.5 dB	10.5 dB
	6 channels	11.5 dB	11.5 dB
	7 channels	11.5 dB	11.5dB
	8 channels	11.5 dB	11.5dB
Ferrite Isolator type		Dual 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		> 75 dB	> 75 dB
Tx to Rx isolation		> 85 dB	> 85 dB
Rx to Rx isolation		> 20 dB	> 20 dB
Tx max input power		100W 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
AC Power		110/220VAC, 50/60Hz	110/220VAC, 50/60Hz
Dimensions	Up to 4 ch	19 x 5.2 x 15.7 in • 483 x 133.35 x 400 mm	19 x 5.2 x 15.7 in • 483 x 133.35 x 400 mm
	From 5 to 8 ch	19 x 10.5 x 15.7 in • 483 x 266.7 x 400 mm	19 x 10.5 x 15.7 in • 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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