

UHF REPEATER COMBINING SYSTEMS

380 - 520 MHz

RTC45 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



RTC45-5A0



Specification	RTC45-xA0-y	RTC45-xB1-y
Type	Repeater Combining System	Repeater Combining System
Frequency band	380-520 MHz, in 30MHz sub bands	380-520, in 30MHz sub bands
Subranges (replace "y" by subranges code)	380-430 ("1") 430-450 ("2") 450-460 ("3") 460-500 ("4") 500-520 ("5")	380-430 ("1") 430-450 ("2") 450-480 ("3") 480-500 ("4") 500-520 ("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 3 channels 8 dB 4 channels 8 dB 5 channels 10dB 6 channels 11dB 7 channels 11dB 8 channels 11dB	5.5dB 8.5 dB 8.5 dB 10.5 dB 11.5 dB 11.5dB 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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Specification		RTC45-xA0-y	RTC45-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