

VHF TRANSMITTER COMBINERS

Cavity and Hybrid • 136 - 174 MHz

TC Series
THW Series

Product Features

TC series uses $\frac{1}{4}$ wavelength high Q resonant cavities with INVAR control rods to ensure long term thermal stability. This series allows 150KHz minimum Tx to Tx separation. Broadband dual junction isolators are employed. Starting from 2 channels, TC series are easily expandable. Maximum input power is 100W per port.

THW series uses hybrid technology to provide Zero Spacing combining. Broadband dual junction isolators are employed. Available in 2, 4, 6 and 8 channel configurations. Maximum input power is 100W per port.

Applications

- For Analog, LTR, MPT1327, among others



Specification

THW15-xB1

Frequency band	136 – 174 MHz			
Number of channels (replace "x")	2	4	6	8
Min Tx to Tx separation	Zero spacing			
Insertion loss at min sep Max	4.1dB	7.6dB	11.1dB	11.1dB
Return loss, min, all ports	18dB			
Tx to Tx isolation, min	60dB			
Antenna to Tx isolation, min	40dB			
Power per channel, max	100W			
Reflected power per ch, max	100W			
Isolator type	Dual junction			
Connectors input	N(f)			
Connector output	N(f)			
Temperature range	32° to 140° F • 0° to +60° C			
Mounting	Brackets for 19" rack			
Rack units requirement	2RU	4 RU	8RU	10RU
Height	3.5 in 88 mm	7 in 177 mm	14 in 356 mm	17.5 in 445 mm
Width	19.0 in • 483 mm			
Depth	15.3 in • 389 mm			
Weight	22 lbs 10 kg	28.7 lbs 13 kg	70.5 lbs 32 kg	77.2 lbs 35 kg

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TC Series
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Specification	TC15-xB1N								
Frequency band	136 – 174 MHz								
Number of channels (replace “x”)	2	3	4	5	6	7	8	9	10
Min Tx to Tx separation	150 KHz								
Insertion loss at min sep Max	3.7dB	3.8dB	3.9dB	4.0dB	4.1dB	4.3dB	4.5dB	4.6dB	4.8dB
Return loss, min, all ports	20dB								
Tx to Tx isolation, min	50dB								
Antenna to Tx isolation, min	40dB								
Power per channel, max	100W								
Reflected power per ch, max	60W								
Isolator type	Dual junction								
Connectors input	N(f)								
Connector output	N(f)								
Temperature range	32° to 140° F • -0° to +60° C								
Mounting	Brackets for 19" rack								
Rack units requirement	18 RU			27.5 RU					
Height	31.5 in			63 in					
	800 mm			1600 mm					
Width	19.0 inches • 482 mm								
Depth	9.4 in		18.9 in			26.8 in			
	240 mm		480 mm			680 mm			
Weight	21.2 lbs	35 lbs	44.1 lbs	58.2 lbs	67.5 lbs	79.4 lbs	88.6 lbs	111.5 lbs	125 lbs
	9.6 kg	15.9 kg	20 kg	26.4 kg	30.6 kg	36 kg	40.2 kg	50.6 kg	56.7 kg