

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-y

Frequency band	136 – 174 MHz in 5 subranges: 134-142 / 142-150 / 150-158 / 158-166 / 166-174			
Number of channels (replace "x")	2	4	6	8
Subranges (replace "y" by subrange code)	134-142 ("1") 142-150 ("2") 150-158 ("3") 158-166 ("4") 166-174 ("5")			
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

DOC TK023.06 - 10112016
 Fiplex is a registered trademark of Fiplex Communications, Inc.
 Fiplex Communications, Inc. reserves the right to change specifications without prior notice.



www.fiplex.com • info@fiplex.com

VHF TRANSMITTER COMBINERS

Cavity and Hybrid • 136 - 174 MHz

TC Series
THW Series

Specification	TC15-xB1N-y									
Frequency band	136 – 174 MHz									
Number of channels (replace "x")	2	3	4	5	6	7	8	9	10	
Subranges (replace "y" by subrange code)	134-142 ("1") 142-150 ("2") 150-158 ("3") 158-166 ("4") 166-174 ("5")									
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 inches			63 inches						
	800 mm			1600 mm						
Width	19.0 inches • 482 mm									
Depth	9.4 inches		18.9 inches			26.8 inches				
	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	