

PUBLIC SAFETY TRANSMITTER COMBINERS

Cavity and Hybrid • 763 - 869 MHz

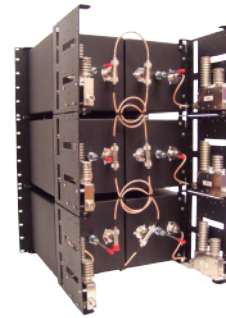
TC Series

Product Features

- ¼ wavelength high Q resonant cavities with INVAR control rods to ensure long term thermal stability
- 175KHz minimum Tx to Tx separation
- Broadband dual junction isolators are employed
- From 2 channels, and easily expandable
- Maximum input power is 1500W per port

Applications

- For TETRA, P25 Ph1, P25 Ph2, Nexedge, DMR, among others



PS 800 MHz Transmitter Combiner



Specification

TC75-xB1N (replace "x" w/channel number)

Frequency band	763 - 776 MHz									
Number of channels	2	3	4	5	6	7	8	9	10	
Min Tx to Tx separation	175 KHz									
Insertion loss at min sep	4.3dB	4.4dB	4.5dB	4.6dB	4.7dB	4.8dB	4.9dB	5.0dB	5.1dB	
Return loss, min, all ports	20dB									
Tx to Tx isolation, min	70dB									
Antenna to Tx isolation, min	55dB									
Power per channel, max	150W									
Reflected power per ch, max	150W									
Isolator type	Dual junction									
Connectors input	N(f)									
Connector output	N(f)									
Temperature range	5° to 140° F • -15° to +60° C									
Mounting	Brackets for 19" rack									
Rack units requirement	5.5RU		11 RU		16.5 RU		22 RU		27.5 RU	
Height	9.6 inches		19.2 inches		28.8 inches		38.4 inches		48.1 inches	
	244 mm		488 mm		732 mm		976 mm		1220 mm	
Width	19.0 inches • 482 mm									
Depth	17.8 inches • 450 mm									
Weight	16.5 lbs	24.2 lbs	33 lbs	40.8 lbs	49.6 lbs	57.3 lbs	66.1 lbs	73.8 lbs	82.7 lbs	
	7.5 kg	11 kg	15 kg	18.5 kg	22.5 kg	26 kg	30 kg	33.5 kg	37.5 kg	

DOC TK057.02 - 05032015
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TC Series

Specification	TC85-xB1N (replace "x" w/channel number)								
Frequency band	851 - 869 MHz								
Number of channels	2	3	4	5	6	7	8	9	10
Min Tx to Tx separation	175 KHz								
Insertion loss at min sep	4.3dB	4.4dB	4.5dB	4.6dB	4.7dB	4.8dB	4.9dB	5.0dB	5.1dB
Return loss, min, all ports	20dB								
Tx to Tx isolation, min	70dB								
Antenna to Tx isolation, min	55dB								
Power per channel, max	150W								
Reflected power per ch, max	150W								
Isolator type	Dual junction								
Connectors input	N(f)								
Connector output	N(f)								
Temperature range	5° to 140° F • -15° to +60° C								
Mounting	Brackets for 19" rack								
Rack units requirement	5.5RU	11 RU		16.5 RU		22 RU		27.5 RU	
Height	9.6 inches		19.2 inches		28.8 inches		38.4 inches		48.1 inches
	244 mm		488 mm		732 mm		976 mm		1220 mm
Width	19.0 inches • 482 mm								
Depth	17.8 inches • 450 mm								
Weight	16.5 lbs	24.2 lbs	33 lbs	40.8 lbs	49.6 lbs	57.3 lbs	66.1 lbs	73.8 lbs	82.7 lbs
	7.5 kg	11 kg	15 kg	18.5 kg	22.5 kg	26 kg	30 kg	33.5 kg	37.5 kg