

TXC4237-1 7 CH Ultra High Q Ceramic Transmitter Combiner, 763-776 MHz

- 7 channel module
- Down to 150 kHz Tx-Tx spacing
- Low loss: 3.7 dB (typ) at minimum spacing
- Compact 9U height

The ceramic combiner uses an ultra high Q ceramic resonator. This simultaneously allows for a very low loss within the combiner and a very close spacing between the transmitter frequencies. The compactness of the resonator means that up to 3 channels can fit in a 3U high, 14 inch deep envelope.

This combiner comes in 1, 2 and 3 channel modules. Combiners with larger numbers of channels can be built by joining these modules.

The loss of a 7 channel combiner as a function of the transmitter spacing is listed below:

Minimum Tx-Tx spacing	Maximum Insertion Loss	Typical Insertion Loss
150-250 kHz	4.1 dB	3.7 dB
250-500 kHz	3.5 dB	2.7 dB
> 500 kHz	3.3 dB	2.5 dB

If the combiner is to be used in an earthquake zone or other high vibration environment then additional support brackets can be ordered. See the ordering information in the next page.



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Electrical Specifications

Frequency Range	MHz	763 to 776	
Input VSWR (max)		1.25:1	
Maximum Input Power (per channel)	W	125	
Input Connectors		N-Female	
Output Connectors		7/16 DIN-Female	
Frequency separation (min)	MHz	0.15	
Insertion loss (typ) Tx to Ant	dB	2.7	*1
Insertion Loss (max) Tx to Ant	dB	4.1	*2
Isolation Tx to Tx	dB	70	
Isolation antenna to Tx	dB	60	
Output VSWR		2:1	
Number of channels		7	*3

Notes

- *1 : 250-500KHz spacing, see table in the previous page
- *2 : See table in the previous page
- *3 : Can be expanded using multiple modules.

Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	14 (356)
Length/ Height	in (mm)	15.75 (400)
Weight	lbs (kg)	58 (26.33)

Environmental Specifications

Temperature range	°F (°C)	+14 to +140 (-10 to +60)
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Ordering Information

Optional brackets: TXC-MKIT-0345-7 (qty. 1)

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