

TXC4234-1 4 CH Ultra High Q Ceramic Transmitter Combiner 763-776 MHz

- Field tunable
- Down to 150 kHz Tx-Tx spacing
- Low loss: 3.5 dB (typ) at minimum spacing
- Compact 6U 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 6 channels can fit in a 6U high, 14 inch deep envelope.

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 4 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	3.8 dB	3.5 dB
250-500 kHz	3.2 dB	2.5 dB
> 500 kHz	2.9 dB	2.1 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	
Number of channels		4	*1
Input Connectors		N-Female	
Output Connectors		7/16 DIN-Female	
Input VSWR (max)		1.25:1	
Output VSWR		2:1	
Insertion loss (typ) Tx to Ant	dB	2.5	*2
Insertion Loss (max) Tx to Ant	dB	3.8	*3
Maximum Input Power (per channel)	W	125	
Frequency separation (min)	MHz	0.15	
Isolation Tx to Tx	dB	70	
Isolation antenna to Tx	dB	60	

Notes

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

Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	14 (356)
Length/ Height	in (mm)	10.5 (267)
Weight	lbs (kg)	34.5 (15.66)

Ordering Information

Optional brackets: TXC-MKIT-0004-2 (QTY: 2)

Environmental Specifications

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