

TC4113 Combiner, hybrid-ferrite, single stage isolator, 3 channels, 806-960 MHz

- Supports extremely close frequency spacings (0-10 MHz separation)
- 50 dB of Tx to Tx isolation
- Permit combining three Tx channels in the 806-960 MHz frequency range
- Single stage isolator

These transmitter combiners can be used in those systems requiring extremely close frequency separations. They utilize Sinclair manufactured isolators, hybrid couplers, harmonic filters and terminations in a compact mechanical configuration allowing a 2-channel transmitter combiner to be mounted in only 3.5 inches of rack space. Standard configurations permit combining up to four transmitters into one antenna. For more than four transmitters, higher isolation, VSWR and power monitoring options, or unusual power requirements, consult Sinclair systems engineers.

Two-channel models may be expanded to four channels by ordering a second 2-channel unit, a hybrid coupler panel and an inter-connecting cable assembly.

The TC-422*HP series is specifically designed for 900 MHz paging and trunking systems where higher power levels and close spacing are required. A variety of mounting arrangements is available to optimize system heat dissipation for your site.

www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Electrical Specifications

Frequency Range	MHz	806 to 960	
Number of channels		3	*1
Input Connectors		N-Female	
Output Connectors		N-Female	
Input VSWR (max)		1.25:1	
Insertion loss (typ) Tx to Ant	dB	4.2	
Insertion Loss (max) Tx to Ant	dB	5.6	
Maximum Input Power (per channel)	W	125	
Frequency separation (max)	MHz	10	
Frequency separation (min)	MHz	0	
Isolation Tx to Tx	dB	55	
Isolation antenna to Tx	dB	28	

Notes

*1 : Qty 2- 2U trays

Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	15.6 (396)
Length/ Height	in (mm)	7 (178)
Weight	lbs (kg)	22 (9.99)
Shipping dimensions	in (mm)	19x26x7 (483x660x178)

Ordering Information

Specify the three Tx channel frequencies when ordering.

Environmental Specifications

Temperature range	°F (°C)	-22 to +140 (-30 to +60)
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