

**TC3112 Hybrid-Ferrite Transmitter Combiner, 2 channel, single stage isolators, 400-512 MHz**

- Supports extremely close frequency spacings
- Two channel models easily expanded to four with a second unit, hybrid, tray, and cable
- Compact 19 inch rack mount

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.

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	400 to 512
Number of channels		2
Input Connectors		N-Female
Output Connectors		N-Female
Input VSWR (max)		1.25:1
Insertion Loss (max) Tx to Ant	dB	3.9
Maximum Input Power (per channel)	W	125
Power (Per Channel)	W	125
Frequency separation (max)	MHz	9
Frequency separation (min)	MHz	0
Isolation Tx to Tx	dB	50
Isolation antenna to Tx	dB	28

### Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	15.63 (397)
Length/ Height	in (mm)	3.5 (89)
Weight	lbs (kg)	11.6 (5.27)
Actual shipping weight	lbs (kg)	20 (9.08)
Shipping dimensions	in (mm)	19x26x7 (483x660x178)

### Environmental Specifications

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

Specify one Tx frequency per channel when ordering.

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