

TC2114 Combiner, hybrid-ferrite, 4 channels, single stage isolators, 132-174 MHz

- Supports extremely close frequency spacings
- 50 dB of Tx to Tx isolation
- Permit combining four 132-174 MHz transmitters into one antenna

These transmitter combiners can be used in those systems requiring extremely close frequency separations. They utilize isolators, hybrids 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 transmitter, higher isolation, VSWR and power monitoring options, or unusual power requirements, consult your Sinclair applications engineers.

www.sinctech.com

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### Electrical Specifications

Frequency Range	MHz	132 to 174
Number of channels		4
Input Connectors		N-Female
Output Connectors		N-Female
Input VSWR (max)		1.25:1
Insertion Loss (max) Tx to Ant	dB	7.3
Power (Per Channel)	W	125
Frequency separation (max)	MHz	3
Frequency separation (min)	MHz	0
Isolation Tx to Tx	dB	50
Isolation antenna to Tx	dB	31

### Notes

\*1 : 3 packages

### Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	15.63 (397)
Length/ Height	in (mm)	10.5 (267)
Weight	lbs (kg)	29.9 (13.57)
Actual shipping weight	lbs (kg)	60 (27.24)
Shipping dimensions	in (mm)	19x26x7 (483x660x178) *1

### Ordering Information

Specify one Tx frequency per channel when ordering.  
Ships in 3 boxes.

### Environmental Specifications

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