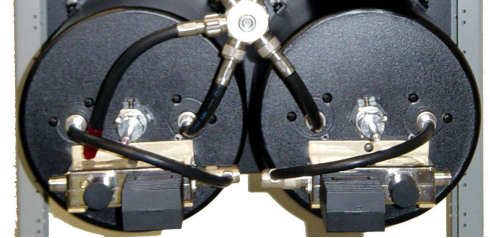


### TN3212 Cavity-ferrite combiner, 2 channel, dual stage isolators, 8.5" Cavities, 406-512 MHz

- 2 channel combiner utilizing 8.5" cavities tuneable over the 406-512 MHz frequency range
- Includes low loss dual stage isolator (one per channel)
- Each channel has a very high Q bandpass cavity filter that fits horizontally in 19" rack

Sinclair's 'TN' series cavity ferrite transmitter combiners are available in 2 to 5 channel configurations for use in systems from 406-512 MHz. Each channel on these combiners includes a low-loss single or dual-stage isolator and Sinclair-developed High 'Q' bandpass cavity filter. All models are 19-inch rack mountable and can be retuned in the field with simple test equipment. The 'TN' series combiner is easily expanded and is the building block used in many Sinclair combining systems. Common electrical specifications for the TN3 series are shown below. To select the combiner ideally suited to your application, please consult your Sinclair representative.



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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Product Specification Sheet EPR 017957		TN3212	Issue: 3	Dated: 14-03-18 Dated: 14-03-18

### Electrical Specifications

Frequency Range	MHz	406 to 512
Number of channels		2
Input Connectors		N-Female
Output Connectors		N-Female
Input VSWR (max)		1.25:1
Output VSWR		2:1
Power (Per Channel)	W	125
Peak total combined CW input power (max)	W	1100
Frequency separation (min)	MHz	0.1
Isolation Tx to Tx	dB	70
Isolation antenna to Tx	dB	60

### Notes

- \*1 : 80 Watts at 100KHz spacing  
125 Watts at >= 150KHz spacing

### Mechanical Specifications

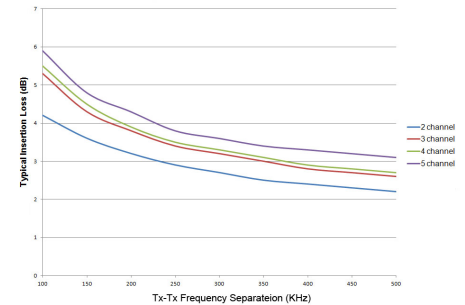
Width	in (mm)	19 (483)
Depth	in (mm)	21.5 (546)
Length/ Height	in (mm)	8.75 (222)
Finish		Black
Weight	lbs (kg)	23.5 (10.67)
Shipping dimensions	in (mm)	20x10x18 (508x254x457)

### Environmental Specifications

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

For 100 kHz separation, the power is limited to 80W per channel



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