

### TJ3214-R-5 Cavity-Ferrite Transmitter Combiner, 4 Channels, 7" Cavities, 459-512 MHz

- Low loss broad band dual stage isolators
- Allows for minimum Tx-Tx spacings of 200 KHz
- Expandable for more channels
- Uses high 'Q' 1/4 wave bandpass cavity filters

Sinclair's 'TJ3x1y-R-z' 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, broad band single or dual-stage isolator and High 'Q' 1/4 wave bandpass cavity filter suitable for close channel separations, typically 200 KHz.

The 'TJ3x1y-R-z' series combiners can be expanded to 20 channels. For expansion please contact the Sinclair Systems group.

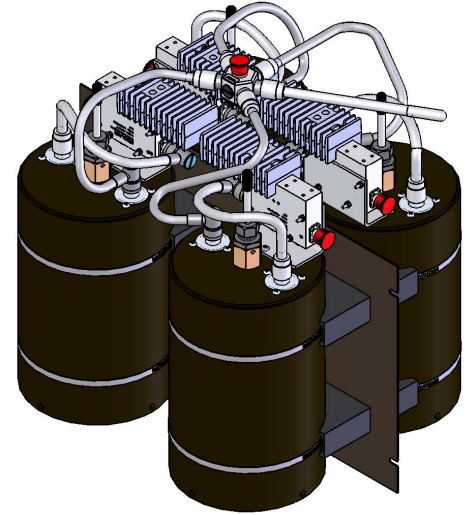
The naming convention and options for the TJ3-R are as follows:

TJ3x1y-R-z

Isolator type  
 x=1 Single stage  
 x=2 Dual stage

y= number of channels

Sub-band  
 z=3 406-440 MHz  
 z=4 430-470 MHz  
 z=5 459-512 MHz



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	459 to 512	
Number of channels		4	
Input Connectors		N-Female	
Output Connectors		N-Female	
Input VSWR (max)		1.25:1	
Output VSWR		2:1	
Insertion Loss (typ) Tx to Ant	dB	3.6	*1
Maximum Input Power (per channel)	W	125	
Frequency separation (min)	MHz	0.2	
Isolation Tx to Tx	dB	60	
Isolation antenna to Tx	dB	50	
Cavity electrical length		1/4	

### Notes

\*1 : @ 250 kHz Tx-Tx spacing

### Mechanical Specifications

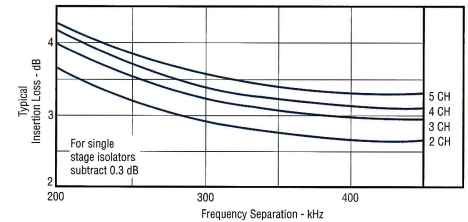
Width	in (mm)	19 (483)
Depth	in (mm)	14.8 (376)
Length/ Height	in (mm)	15.3 (389)
Weight	lbs (kg)	40 (18.16)
Actual shipping weight	lbs (kg)	53 (24.06)
Shipping dimensions	in (mm)	20x16x21 (508x406x533)

### Environmental Specifications

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

Specify one Tx frequency per channel at time of order.



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