

TJ3215-R-6 Cavity-Ferrite Transmitter Combiner, 5 Channels, 7" Cavities, 380-400 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 380-512 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
z=6 380-400 MHz



Combiner may not appear exactly as shown.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet		TJ3215-R-6	Issue: 0	Dated: 23-01-24

Electrical Specifications

Frequency Range	MHz	380 to 400
Number of channels		5
Input Connectors		N-Female
Output Connectors		N-Female
Input VSWR (max)		1.25:1
Output VSWR (max)		2:1
Insertion Loss (typ) Tx to Ant	dB	3.8
Maximum Input Power (per channel)	W	125
Frequency separation (min)	MHz	0.15
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

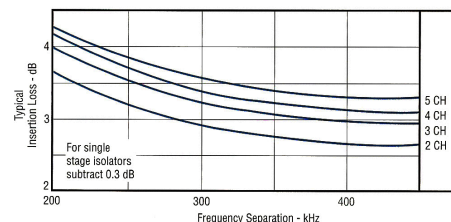
Width	in (mm)	19 (483)
Depth	in (mm)	21.5 (546)
Length/ Height	in (mm)	18.5 (470)
Cavity width or diameter	in (mm)	6.63 (168)
Weight	lbs (kg)	50 (22.7)

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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