

TJ3215-R-4 Cavity-Ferrite Transmitter Combiner, 5 Channels, 7" Cavities, 430-470 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.

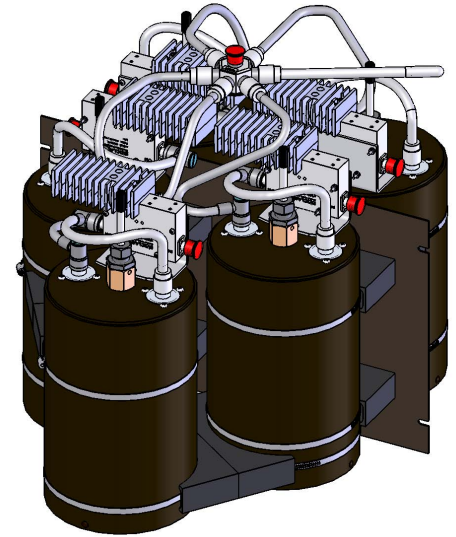
The naming convention and options for the TJ3-R are as follows:

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



| Region | United States | Europe, Middle East and Africa | Caribbean and Latin America | Canada and rest of the world |
|------------------|-----------------------|--------------------------------------|--------------------------------|--|
| Telephone | USA: 1 800 263 3275 | International: +44 (0) 1487 84 28 19 | International: +1 905 726 7676 | Canada: 1 800 263 3275 International: +1 905 727 0165 |
| E-mail | salesusa@sinctech.com | salesuk@sinctech.com | salesla@sinctech.com | salescan@sinctech.com |

Electrical Specifications

| | | | |
|-----------------------------------|-----|------------|----|
| Frequency Range | MHz | 430 to 470 | |
| Number of channels | | 5 | |
| 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 | 3.8 | *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

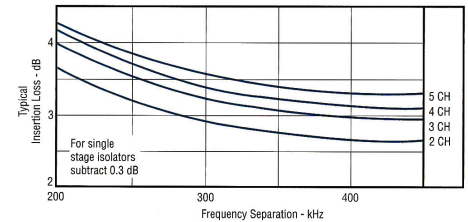
| | | |
|------------------------|----------|------------------------------|
| Width | in (mm) | 19 (483) |
| Depth | in (mm) | 20.8 (528) |
| Length/ Height | in (mm) | 15.3 (389) |
| Weight | lbs (kg) | 50 (22.7) |
| Actual shipping weight | lbs (kg) | 65 (29.51) |
| Shipping dimensions | in (mm) | 20.5x20.5x24.5 (521x521x622) |

Environmental Specifications

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

Ordering Information

Specify one Tx frequency per channel at time of order.



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