

TJ3114 Cavity-ferrite Tx combiner, 4 channels, single stage isolator, 406-512 MHz

- Four channel cavity-ferrite combiner in compact configuration, 406-512 MHz
- Single low-loss isolator
- High Q bandpass cavity filters

Sinclair's 'TJ3' series cavity ferrite transmitter combiners are available in 2 to 8 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. They utilize very high 'Q' one-quarter wavelength cavities and is especially suitable for close channel separations, typically 200 kHz.

All models are 19-inch rack mountable.

The 'TJ3' series combiner is easily expanded to 20 channels upon request and is the building block used in many Sinclair combining systems. Common electrical specifications are shown below.

To select the combiner ideally suited to your application, please consult your Sinclair customer service 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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Electrical Specifications

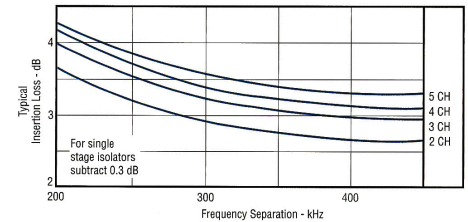
| | | |
|----------------------------|-----|------------|
| Frequency Range | MHz | 406 to 512 |
| Number of channels | | 4 |
| Input Connectors | | N-Female |
| Output Connectors | | N-Female |
| Input VSWR (max) | | 1.25:1 |
| Output VSWR | | 2:1 |
| Average Input Power (max) | W | 125 |
| Frequency separation (min) | MHz | 0.2 |
| Isolation Tx to Tx | dB | 35 |
| Isolation antenna to Tx | dB | 25 |

Mechanical Specifications

| | | |
|----------------|----------|------------|
| Width | in (mm) | 19 (483) |
| Depth | in (mm) | 15.3 (389) |
| Length/ Height | in (mm) | 14 (356) |
| Weight | lbs (kg) | 24 (10.9) |

Environmental Specifications

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



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