

TJ3214 Combiner, 4 channel, 7" cavity-ferrite, dual stage isolator, enclosure, 19" rack mount, 406-512 MHz

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

Sinclair's 'TJ3' 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 single or dual-stage isolator and Sinclair-developed High 'Q' bandpass cavity filter. They utilize very high 'Q' three-quarter wavelength cavities, and is especially suitable for close channel separations, typically 250 kHz.

All models are 19-inch rack mountable. High power, special filtering and special mounting versions are also available. The 'TJ' series combiner is easily expanded to 20 channels, 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 representative.



| 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 |
| Input VSWR (max) | | 1.25:1 |
| Average Power Input (max) | W | 125 |
| Input Connectors | | N-Female |
| Output Connectors | | N-Female |
| Frequency separation (min) | MHz | 0.2 |
| Isolation Tx to Tx | dB | 70 |
| Isolation antenna to Tx | dB | 60 |
| Output VSWR | | 2:1 |
| Cavity electrical length | | 0.25 |
| Number of channels | | 4 |

Mechanical Specifications

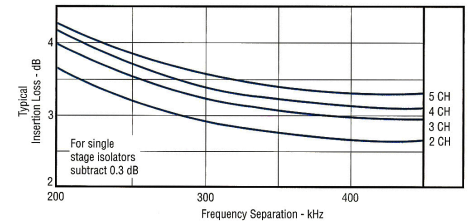
| | | |
|--------------------------|----------|------------|
| Width | in (mm) | 19 (483) |
| Depth | in (mm) | 15.3 (389) |
| Length/ Height | in (mm) | 14 (356) |
| Outer Conductor Material | | aluminum |
| Weight | lbs (kg) | 28 (12.71) |
| Cavity width or diameter | in (mm) | 7 (178) |

Environmental Specifications

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

Ordering Information

Specify channel frequencies when ordering.



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