

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 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. High power, special filtering, and special mounting versions are also available. The 'TJ3' 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
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	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	70
Isolation antenna to Tx	dB	60
Cavity electrical length		0.25

Mechanical Specifications

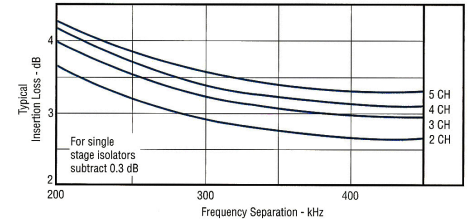
Width	in (mm)	19 (483)
Depth	in (mm)	15.3 (389)
Length/ Height	in (mm)	14 (356)
Cavity width or diameter	in (mm)	7 (178)
Outer Conductor Material		aluminum
Weight	lbs (kg)	28 (12.71)

Environmental Specifications

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

Specify channel frequencies when ordering.



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