

TJ3314-(X) Combiner, 4 CH, 7" can, triple stage isolator, 406-512 MHz

- Four channel cavity-ferrite combiner in a compact configuration
- Triple-stage low-loss isolator with outstanding 80 dB Tx-Tx isolation
- High Q bandpass cavity filters
- Close Tx separation down to 200 kHz

Sinclair TJ33 series cavity ferrite transmitter combiners are available in typically 2 to 5 channel configurations for use in systems from 406-512 MHz. Higher channel configuration is also available upon request. Each channel on these combiners includes a low-loss triple-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.

When ordering, please refer to below chart for the model number and frequency range. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Sub-Band	Note
TJ3314-1	406-415 MHz	Released, readily Avail.
TJ3314-2	415-425 MHz	Released, readily Avail.
TJ3314-3	425-435 MHz	Released, readily Avail.
TJ3314-4	435-445 MHz	Released, readily Avail.
TJ3314-5	445-455 MHz	Released, readily Avail.
TJ3314-6	455-470 MHz	Released, readily Avail.
TJ3314-7	470-490 MHz	Released, readily Avail.
TJ3314-8	490-512 MHz	Available upon request

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	*1
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	80	
Isolation antenna to Tx	dB	70	

Notes

- *1 : See previous page for sub-band details.
*2 : Two boxes, each 22x22x16.5 inches.

Mechanical Specifications

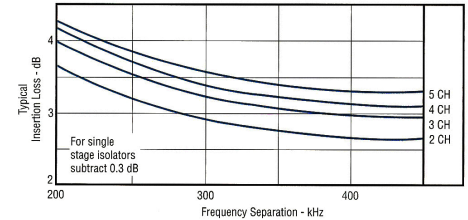
Width	in (mm)	19 (483)	
Depth	in (mm)	15.3 (389)	
Length/ Height	in (mm)	14 (356)	
Cavity width or diameter	in (mm)	7 (178)	
Outer Conductor Material		aluminum	
Weight	lbs (kg)	30 (13.62)	
Actual shipping weight	lbs (kg)	36 (16.34)	
Shipping dimensions	in (mm)	22x22x16.5 (559x559x419)	*2

Ordering Information

Specify channel frequencies when ordering.

Environmental Specifications

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