

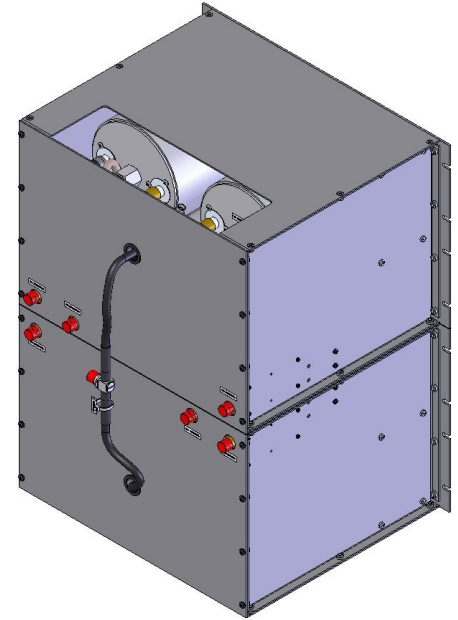
TJ3116 Cavity-ferrite Tx combiner, 6 channels, single stage isolator, 406-512 MHz

- Combine 6 transmitters on to single antenna
- Low loss, single stage isolators, one per channel
- Uses 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.



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Product Specification Sheet		TJ3116	Issue: 1	Dated: 13-03-18

Electrical Specifications

Frequency Range	MHz	406 to 512
Number of channels		6
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	3.5
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)	24.5 (622)
Weight	lbs (kg)	42 (19.07)

Environmental Specifications

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