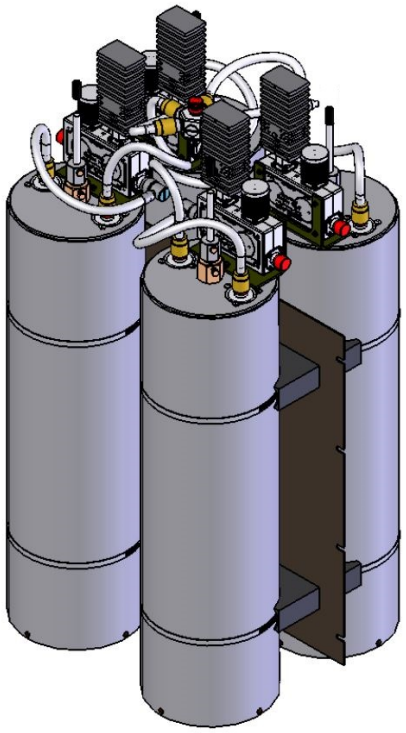
Transmitter Combiners
Low Band, Aviation, and VHF Transmitter Combiners
TJ2 Series

TJ2214-3 Combiner, 4 channel, 7" cavity-ferrite, dual stage isolator, 148-174 MHz

- Four channel cavity-ferrite combiner in compact configuration
- Dual low-loss isolator
- High Q bandpass cavity filters



Sinclair's 'TJ2' series cavity ferrite transmitter combiners are available in 2 or more channel configurations for use in systems from 132-174 MHz. Each channel on these combiners includes a low-loss single or dual-stage isolator and Sinclair-developed High 'Q' bandpass cavity filter. The 'TJ2' series utilizes very high 'Q' quarter wavelength cavities, and is especially suitable for close channel separations, typically 150 kHz.

All models are 19-inch rack mountable and can be retuned in the field with simple test equipment. The 'TJ2' series combiner can be easily expanded to 20 channels, and is the building block used in many Sinclair combining systems. High power, special filtering, and special mounting versions are also available. To select the combiner ideally suited to your application, please consult your Sinclair Representative.

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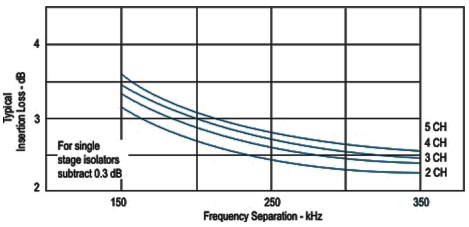
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Electrical Specifications		
Frequency Range	MHz	148 to 174
Input VSWR (max)		1.25:1
Input Connectors		N-Female
Output Connectors		N-Female
Power (Per Channel)	W	125
Frequency separation (min)	MHz	0.15
Insertion Loss (max) Tx to Ant	dB	3.5
Isolation Tx to Tx	dB	70
Isolation antenna to Tx	dB	60
Output VSWR		2:1
Number of channels		4
Impedance		50 Ohms

Mechanical Specifications		
Width	in (mm)	19 (483)
Depth	in (mm)	15 (381)
Length/ Height	in (mm)	32 (813)
Finish		chemical conversion
Weight	lbs (kg)	31 (14.07)
Actual shipping weight	lbs (kg)	50 (22.7)
Shipping dimensions	in (mm)	22x19x38 (559x483x965)

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



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