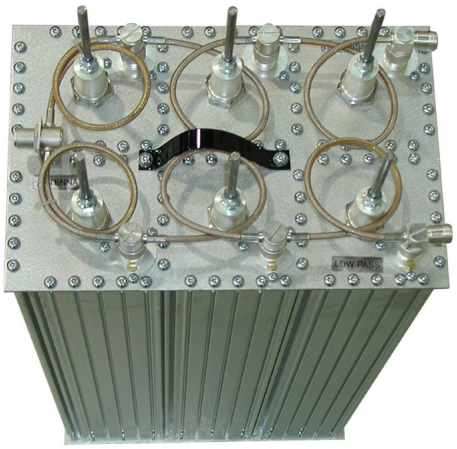
Q2330E Duplexer, Q-Circuit, Res-Lok, 6 cavity, rack mount, 138-174 MHz

- Six-cavity provides 85 dB isolation
- Res-Lok design reduces inter-cavity cabling and losses
- Provides up to 85 dB isolation at frequency separation of 500 kHz
- Provides 150 kHz bandwidth for the transmit and receive bands



Sinclair developed the Q2330E design coupled with our Res-Lok™ modular construction resulting in an extremely versatile duplexer offering exceptional performance. The Q2330E design provides a quasi-bandpass response, resulting in suppression of spurious and sideband transmitter noise between and adjacent to the duplex frequencies. Coupled with carefully temperature compensated components this series of duplexers ensures performance stability at very low frequency separations and insertion loss values.

Q2330E can provide 150 kHz bandwidth for the transmit and receive bands. Please specify the frequency at the time of order. Wider bandwidth is possible as customization, please contact your Sinclair sales representative for details.

Application Notes

- Res-Lok™ modular construction offers a variety of mounting options. The multi position brackets supplied with each duplexer allow easy rack, wall or floor mounting to suit system and equipment room limitations. A variety of system-specific configurations is available in the 138-174 MHz frequency range.

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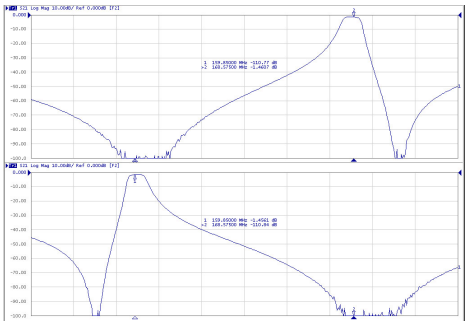
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Electrical Specifications		
Frequency Range	MHz	138 to 174
Number of Cavities - Tx Side		3
Number of Cavities - Rx Side		3
Connectors		N-Female
Input VSWR (max)		1.5:1
Insertion Loss Low Pass to Ant (max)	dB	1.5
Insertion Loss High Pass to Ant (max)	dB	1.5
Insertion loss (typ) Tx to Ant	dB	1.4
Insertion loss (typ) Rx to Ant	dB	1.4
Impedance	Ω	50
Isolation - Tx noise suppression at Rx (min)	dB	85
Isolation - Rx carrier suppression at Tx (min)	dB	85
Average Input Power (max)	W	350
Frequency separation (min)	MHz	0.5

Mechanical Specifications		
Width	in (mm)	19 (483)
Depth	in (mm)	30.3 (770)
Length/ Height	in (mm)	8.37 (213)
Finish		chromate conversion
Weight	lbs (kg)	45 (20.43)
Mounting configurations		19 inch rack
Actual shipping weight	lbs (kg)	50 (22.7)
Shipping dimensions	in (mm)	12x16x37 (305x406x940)

Environmental Specifications		
Temperature range	°F (°C)	-40 to +140 (-40 to +60)



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