

**Q3330E-1** Duplexer, Q-Circuit, Res-Lok, 6 cavity, rack mount, 406-420 MHz

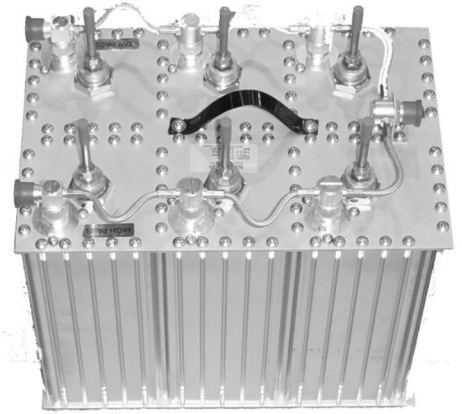
Also referred as: Q3330E\*1

- Six-cavity Res-Lok duplexer design
- Provide 1 MHz passband and reject notch where frequency separation is 5 Mhz
- Typical minimum isolation is 85 dB with maximum insertion loss of 1.3 dB

Sinclair developed Q-Circuit design coupled with our Res-Lok™ modular construction to result in a series of extremely versatile duplexers offering exceptional performance. The Q-Circuit 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.

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 406-512 MHz frequency range.

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Product Specification Sheet EPR 016316		Q3330E-1	Issue: 8	Dated: 02-11-20 Dated: 02-11-20

### Electrical Specifications

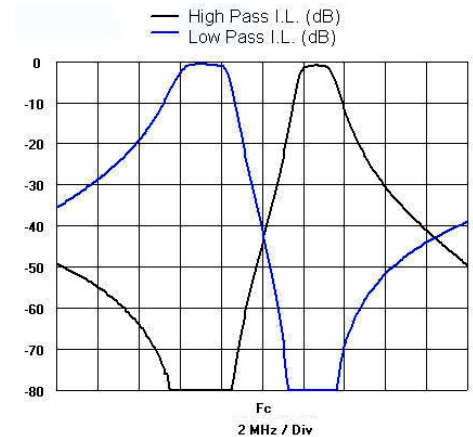
Frequency Range	MHz	406 to 420
Connectors		N-Female
Input VSWR (max)		1.5:1
Insertion loss (max) Tx to Ant	dB	1.3
Insertion loss (max) Rx to Ant	dB	1.3
Impedance	Ω	50
Average Input Power (max)	W	350
Frequency separation (min)	MHz	5
Isolation (min)	dB	85

### Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	11.38 (289)
Length/ Height	in (mm)	8.3 (211)
Finish		chromate conversion
Weight	lbs (kg)	23 (10.44)
Mounting configurations		19 inch rack
Actual shipping weight	lbs (kg)	25 (11.35)
Shipping dimensions	in (mm)	11x15x24 (279x381x610)

### Environmental Specifications

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