

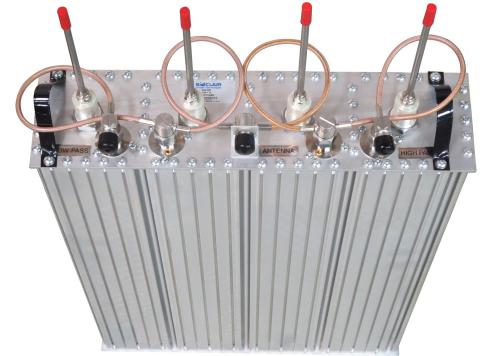
Q2220E Duplexer, Q-Circuit, Res-Lok, 4 cavity, rack mount, 138-174 MHz

- Four cavity duplexer with 70 dB of isolation
- Only 1.5 dB insertion loss at 500 KHz separation
- Isolation of 80 dB at 3 MHz spacing typical

Sinclair developed the Q2220E design coupled with our Res-Lok™ modular construction resulting in an extremely versatile duplexer offering exceptional performance. The Q2220E 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.

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.



Electrical Specifications

Frequency Range	MHz	138 to 174
Number of Cavities - Tx Side		2
Number of Cavities - Rx Side		2
Input Connectors		N-Female
Output Connectors		N-Female
Input VSWR (max)		1.5:1
Insertion Loss (max) Tx to Ant	dB	1.5
Impedance	Ω	50
Average Input Power (max)	W	350
Frequency separation (min)	MHz	0.5
Isolation (min)	dB	70

Mechanical Specifications

Width	in (mm)	19 (483)
Depth	in (mm)	30.3 (770)
Length/ Height	in (mm)	4.17 (106)
Finish		chromate conversion
Weight	lbs (kg)	28 (12.71)
Mounting configurations		19 inch rack
Actual shipping weight	lbs (kg)	33 (14.98)
Shipping dimensions	in (mm)	19.25x7x30.5 (489x178x775)

Environmental Specifications

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

