

Q301GC-4 Duplexer, base station, Q-Circuit, Cabinet mounted, 420-450 MHz

- High attenuation at extremely close frequency spacings in 420-450 MHz band
- Quasi bandpass response suppresses spurious and side-band transmitter noise
- Available in either rack mount or cabinet enclosure

The Q-301G base station duplexer utilizes Sinclair's Q-circuit design in a 6-cavity configuration to provide very high attenuation at extremely close frequency separation in the 406-512 MHz band. This design provides a quasi-bandpass response, resulting in suppression of spurious and side-band transmitter noise between and adjacent to the duplex frequencies. The Q-302G is available in either rack-mounted, Q-301GR, or cabinet enclosed, Q-301GC, configuration.

Application Notes

- -1 is 406 to 420MHz
- -2 is 450 to 470MHz
- -3 is 470 to 512MHz
- -4 is 420 to 450MHz



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Electrical Specifications

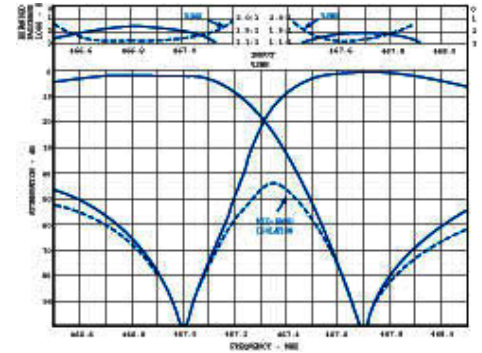
Frequency Range	MHz	420 to 450
Number of cavities Tx Side		3
Number of Cavities Rx Side		3
Input VSWR (max)		1.5:1
Impedance	Ω	50
Isolation Rx carrier suppression at Tx (min)	dB	100
Isolation Tx noise suppression at Rx (min)	dB	100
Average Power Input (max)	W	250
Connectors		N-Female
Frequency separation (min)	MHz	0.7
Insertion loss Rx to antenna (max)	dB	2.2
Insertion loss Tx to antenna (max)	dB	2.2

Mechanical Specifications

Depth	in (mm)	17.2 (437)
Length/ Height	in (mm)	40.4 (1026)
Width	in (mm)	22 (559)
Weight	lbs (kg)	110 (49.94)
Actual Shipping weight	lbs (kg)	120 (54.48)
Shipping dimensions	in (mm)	24x19x44 (610x483x1118)
Mounting configurations		cabinet

Environmental Specifications

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