

**Q301GR-3** Q-Circuit 6 Cavity Base Station Duplexer, Rack Mountable, 470-512 MHz

- High attenuation at extremely close frequency spacings in 470-512 MHz band
- Quasi bandpass response suppresses spurious and side-band transmitter noise
- Easy rack-mounted configuration.

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-302GR is a rack-mounted configuration.

www.sinctech.com

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

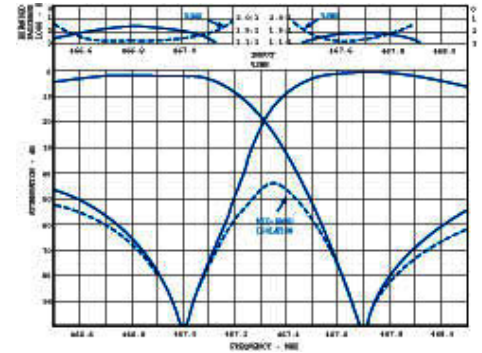
Frequency Range	MHz	470 to 512
Number of cavities Tx Side		3
Number of Cavities Rx Side		3
Input VSWR (max)		1.5:1
Impedance	Ω	50
Isolation Rx carrier suppression at Tx (min)	dB	100
Isolation Tx noise suppression at Rx (min)	dB	100
Average Power Input (max)	W	250
Frequency separation (min)	MHz	0.7
Insertion loss Rx to antenna (max)	dB	2.2
Insertion loss Tx to antenna (max)	dB	2.2

### Mechanical Specifications

Depth	in (mm)	15 (381)
Length/ Height	in (mm)	35 (889)
Width	in (mm)	19 (483)
Weight	lbs (kg)	60 (27.24)
Actual Shipping weight	lbs (kg)	90 (40.86)
Shipping dimensions	in (mm)	20x16x21 (508x406x533)
Mounting configurations		19 inch rack

### Environmental Specifications

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