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Agilent Technologies

Innovating the HP Way



MM-Wave Waveguide Isolators

33.0-60.0 GHz

HP Models
Q365A
U365A

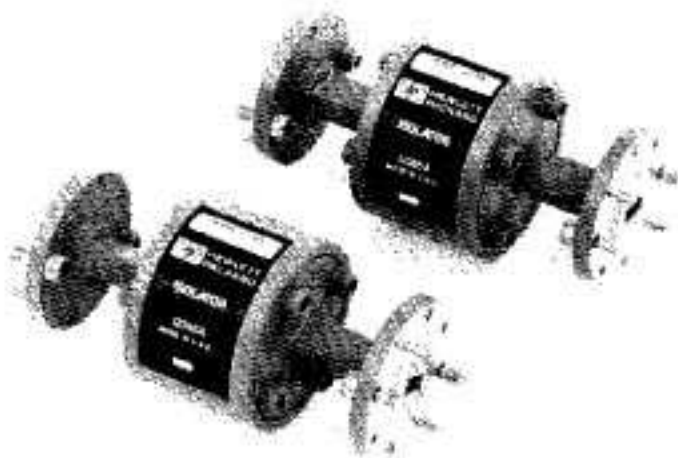
TECHNICAL DATA • MAY 1985

NEW PERFORMANCE STANDARDS FOR MM WAVE MEASUREMENTS

Waveguide Isolators find important applications in measurement setups where it is necessary to improve a mismatch or to isolate reflection effects of a source. It becomes particularly important in millimeter frequency ranges where good matches are harder to achieve or where diode signal sources show sensitivity to load mismatches.

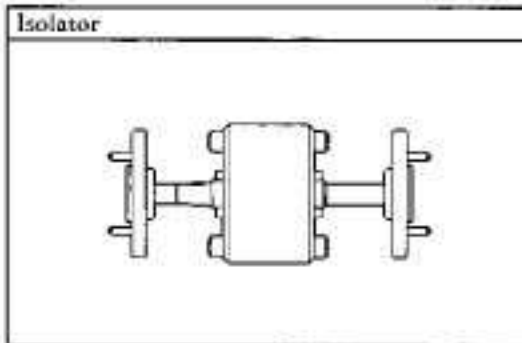
HP Q and U365A Isolators are Faraday-rotation-type design consisting of a section of waveguide containing low-loss ferrite material and impedance matching elements. A permanent magnet supplies the external magnetic bias field to the ferrite core.

Excellent isolation ratios of at least 25 dB are achieved broadband, along with low SWR and insertion loss.



SPECIFICATIONS

HP Model #	Q365A	U365A	
Frequency Range (GHz)	33.0 - 50.0	40.0 - 60.0	
Insertion Loss (dB, max.)	1.5	1.8	
Isolation (dB, min.)	25	25	
SWR (max.)	1.4	1.4	
Maximum Input Power (W, avg.)	1.5	1.5	
Fits Waveguide Size:			
EIA	WR-22	WR-19	
MIL-F-85/x-xx	3-010	3-014	
Equivalent Flange:			
MIL-F-85/xx-xxx	67B-006	67B-007	
UG-xxx/U	UG-383/U	UG-383/U (mod.)	
Dimensions:			
Length:	cm.	6.8	6.7
	in.	1.32	1.32
Net Weight:	gm.	124	120
	lb.	.27	.26



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