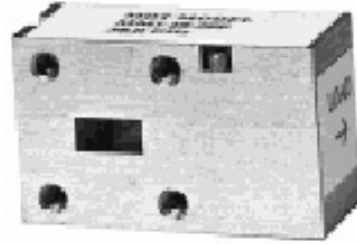


Features

- Models from 18–110 GHz
- Low Insertion Loss
- Good Temperature Performance
- Small Size
- Low Cost



Description

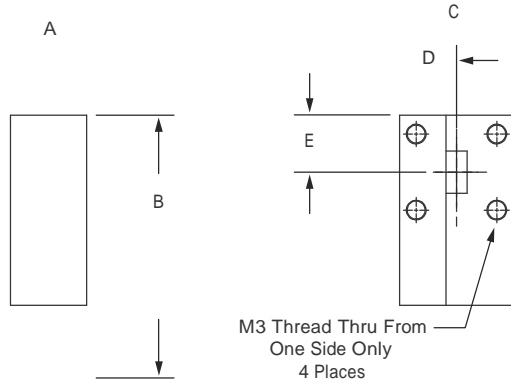
Microsemi's Miniature Ferrite Isolators are H-Plane, Y-Junction devices with similar performance specifications to standard size isolators. Models are available in bands covering center frequencies from 18–110 GHz and feature low insertion loss and high isolation within the specified bandwidth.

MMI series isolators are useful in improving the stability of microwave oscillators and amplifiers by projecting matched impedance across the frequency and preventing reverse and reflected power from adversely affecting performance.

Specifications @ 25°C

Model No.	Freq. GHz	Waveguide	Flange	Min. Bandwidth (%)	Min. Isolation (dB)	Max. Insertion Loss	Max. SWR (In & Out)	Max. Average Power (Watts)	
								Forward	Reverse
MMI42595T	18.0–26.5	WR-42	UG595/U	10	20	0.3	1.30	40	1.0
MMI28599T	26.5–40.0	WR-28	UG599/U	10	20	0.4	1.30	30	1.0
MMI22599T	33.0–50.0	WR-22	UG599/U-M	8	20	0.5	1.30	20	0.8
MMI19599T	40.0–60.0	WR-19	UG599/U-M	7	18	0.6	1.35	5	0.5
MMI10599T	75.0–110.0	WR-10	UG599/U-M	2	18	0.7	1.30	0.2	0.2

Operating temperature range: -10 to +60°C except: -10°C to +50°C for MI10599.



WAVE-GUIDE SIZE	A IN/MM	B IN/MM	C IN/MM	D IN/MM	E IN/MM
WR-42	0.75/19.1	1.50/38.1	0.90/22.9	0.45/11.4	0.45/11.4
WR-28	0.50/12.7	1.25/31.8	0.75/19.1	0.38/9.7	0.38/9.7
WR-22	0.50/12.7	1.25/31.8	0.75/19.1	0.38/9.7	0.38/9.7
WR-19	0.50/12.7	1.25/31.8	0.75/19.1	0.38/9.7	0.38/9.7
WR-10	1.00/25.4	1.20/30.5	0.90/22.9	0.45/11.4	0.50/12.7

Ordering Information.

Model Number	MMI	28	599	T
	↑		↑	↑
	Model	W/G size	Flange	Threaded Flange Holes

MMI isolator part numbers are designated by indicating the center frequency and waveguide size and flange type. For example, the MMI22599T at 33.5 GHz indicates WR22 waveguide, UG599/U-M flange with threaded holes at 33.5 GHz center frequency. For a through-hole flange the part number is MMI22599.