WR137 Waveguide Circulator 5.85-8.2GHz 300W

- Wide band operation 5.85-8.2GHz
- High isolation within operational band
- Low Insertion loss
- Low temperature coefficient ferrite material offer stable performance over temperature
- Commercial Aerospace and military application
- High peak to average handle capability
- All specifications can be modified upon request

Parameter	Min	Type	Max	Units
Frequency Range		5.85-8.2		GHz
Insertion Loss			0.50	dB
Isolation	20			dB
(see Note 1 for formula between frequency, isolation and insertion loss)				
VSWR			1.25	:1
Forward Power (CW)			300	W
Size	L	W	H	
	3.15”	3.46”	1.94”	Inch
	80	88	49.2	mm
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Impedance		50		Ω
Input /Output Connector	UG 441/U Waveguide COVER Flange 4 Holes Flat			
Finishing	conductive oxide (not painted)			
Case Material	Aluminum/copper			
Operational Temp.	-20		60	ºC
Storage Temp.	-40		85	ºC
Altitude	15000		TBD	ft.
Vibration	10g 15 degree 2KHz			RMS
Humidity	100% RH at 35c, 95%RH at 40ºC			
Shock	20G for 11msc.			

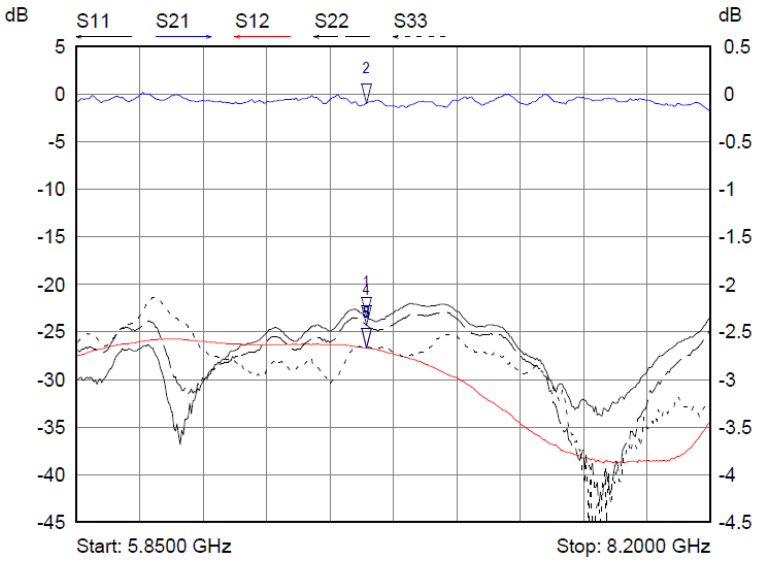
Note: Unit has narrow frequency bandwidth can achieve higher isolation & low insertion loss

Bandwidth (5 ~10) % x Center Frequency (Isolation >25dB)

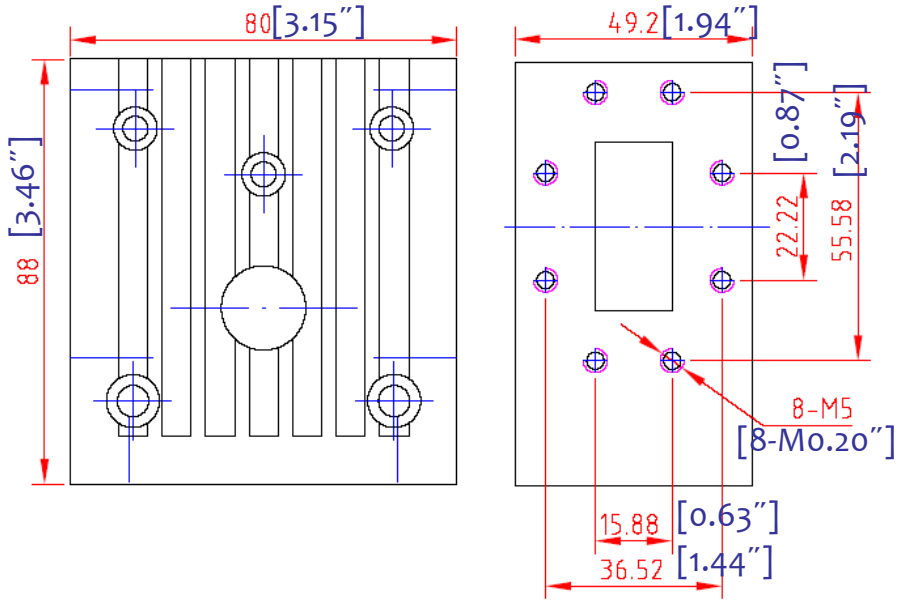
Bandwidth (20~30) % x Center Frequency (Isolation >20dB)

Bandwidth (40~60) % x Center Frequency (Isolation >17dB)

Ask manufacture for detail



Mkr	Trace	X-Axis	Value
1	S11	6.9250 GHz	-23.44 dB
2	S21	6.9250 GHz	-0.09 dB
3	S12	6.9250 GHz	-26.68 dB
4	S22	6.9250 GHz	-24.26 dB
5	S33	6.9250 GHz	-26.66 dB



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