

RMX50G75GA

Millimeter-Wave Harmonic Mixer 50 - 75GHz

<u>Features</u>

- Broadband, up to 325GHz
- Fundamental and harmonic mixer
 - High dynamic range, low noise figure
- Customization available upon request



Electrical Specifications , $T_A=25\,^{\circ}C$

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Parameter	Min.	Тур.	Max.	Units
RF Input Frequency	50		75	GHz
IF Output Frequency	6.25		9.38	MHz
Conversion Loss			24	dB
Input 1dB Compression (P1dB)		5		dBm
In-Band Spurious Rejection		-50		dBc
Harmonic Number		3		
LO Power	7		12	dBm
Conversion Response		±2.5		dB
Bias Voltage			5	v
RF / LO/ IF Connectors	WR-15/2.4mm-Female/3.5mm-Female			

Environmental Specifications and Test Standards

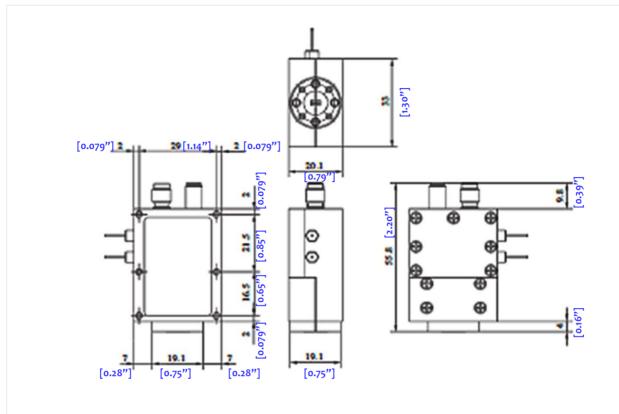
Parameter	Standard	Description		
Operational Temperature		-40°C~+85°C		
Storage Temperature		-55℃~+125℃		
Thermal Shock		1 Hour@ -45°C \rightarrow 1 Hour @ +85°C (5 Cycles)		
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS		
Electrical & Temperature Burn In	MIL-STD-39016	Temperature +85°C for 72 Hours		
Shock		 Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s Total 18 times (6 directions, 3 repetitions per direction). 		
Altitude		Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)		
Hermetically Sealed (Optional)	MIL-STD-883	MIL-STD-883 (For Hermetically Sealed Units)		



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Outline Drawing:

All Dimensions in mm [inches]



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