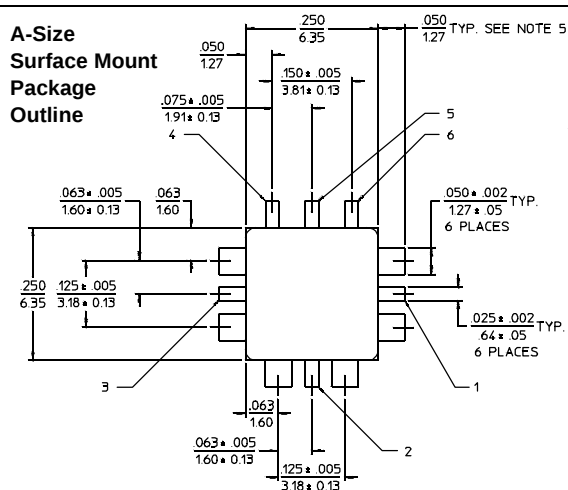


**PRINCIPAL SPECIFICATIONS**

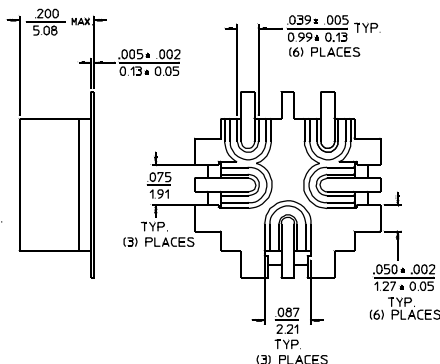
Model Number	RF/LO Frequency, MHz	IF Frequency, MHz	LO Drive, dBm, Nom.	Conversion Loss, dB, Max.	Typ.	Port Isolation, Typ. L-R	L-X	R-X	-1 dB Compr. Point	Input Intercept Point
DMG-2A-750	10 - 1500	DC - 1000	+7	10	7	35	20	15	0 dBm (typ.)	+12 dBm (typ.)
DMG-4A-750	10 - 1500	DC - 1000	+13	10	8	35	20	15	+8 dBm (typ.)	+19 dBm (typ.)

All specifications are as measured in a 50Ω system, at nominal LO power, in a down converter application.

A-Size Surface Mount Package Outline

NOTES:

1. Tolerance on 3 place decimals ± 0.010 (.25) except as noted.
2. Dimensions in inches over millimeters.
3. All unmarked tabs are ground.
4. Max is largest dimension allowed.
5. Untrimmed lead length 0.25(6.35) nominal.



PIN NO.	FUNCTION
1	RF (R)
2	IF (X)
3	LO (L)
4	GROUND
5	GROUND
6	GROUND

General Notes:

1. The DMG-A series of surface mount Double Balanced Mixers covers the frequency range of 10 to 1500 MHz using miniature 4-diode rings suitable for both general purpose and high performance applications.
2. The DMG-A SMD package is designed for 50 Ω coplanar systems to insure satisfactory RF performance. The Kovar leads are supplied untrimmed (unless otherwise specified) to allow mounting the package in a variety of configurations.
3. Merrimac offers a broad selection of Double Balanced Mixers ideal for a variety of signal processing functions from 20 kHz to 20 GHz.
4. Merrimac mixers comply with MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

03May96

GENERAL SPECIFICATIONS

Impedance:	50 Ω nom.
Noise Figure:	Within ± 1 dB of Conversion Loss
Maximum Input Power:	300 mW @ 25°C (derate linearly to 0 mW @ 125°C)
Usable LO Drive:	
DMG-2A-750:	+7 to +10 dBm
DMG-4A-750:	+10 to +17 dBm
Polarity Sense:	Positive
DC Offset Voltage:	3 mV typ.
Weight, nominal:	0.02 oz (0.5 g)
Operating Temperature:	-55° to +85°C