M63/M63C

DOUBLE-BALANCED MIXER

· LO 2.5 TO 7 GHz
· RF 2.5 TO 5.5 GHz
· IF DC TO 1.5 GHz
· LO DRIVE +9 dBm (nominal)
· LOW NOISE FIGURE 5.8 dB (TYP.)

Specifications (Rev. Date: 10/01)*

Characteristics	Typical	Guaranteed	
		+25°C	-54° to +85°C
SSB Conversion Loss & SSB Noise Figure (max.) f_R = 3 to 5 GHz, f_L = 3 to 5.5 GHz, f_I = 0.03 to 0.5 GHz f_R = 2.5 to 5.5 GHz, f_L = 2.5 to 7 GHz, f_I = 0.03 to 1.5 GHz	 5 dB 5.8 dB	 6 dB 7 dB	 6.5 dB 7.5 dB
Isolation (min.) L to R f_L = 2.5 to 7 GHz	 40 dB	 30 dB	 28 dB
L to I f_L = 2.5 to 3.5 GHz f_L = 3.5 to 7 GHz	 25 dB 30 dB	 17 dB 20 dB	 15 dB 18 dB
1 dB Conversion Compression f_L @ +9 dBm	 +2 dBm		
Input IP3 f_{R1} = 4 GHz @ -10 dBm f_{R2} = 4.01 GHz @ -10 dBm f_L = 22.8 GHz @ 9 dBm	 +11 dBm		

Measured in a 50-ohm system with nominal LO drive and downconverter application only, unless otherwise specified. Subject to change without notice.

Absolute Maximum Ratings

Operating Temperature	-54°C to 100°C
Storage Temperature	-65°C to 100°C
Peak Input Power	23 dBm max. @ +25°, °C
Peak Input Current	100 mA DC

Outline Drawing(s)

Package	Figure	Model
MPAC	DM	M63
SMA	DL	M63C

Typical Performance at 25°C