

DOUBLE BALANCED MIXER

MODEL MC34SMT-12

Features

- Conversion Loss: 5.5 dB Typical
- Microstrip Compatible Carrier

RF: 5.7 - 5.9 GHz
LO: 5.7 - 5.9 GHz
IF: DC - 100 MHz

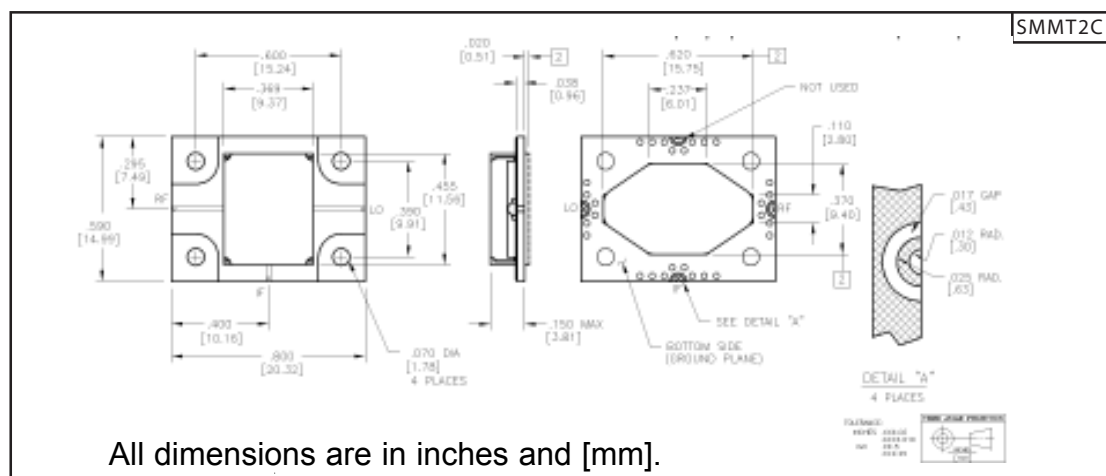
Electrical Specifications ⁽¹⁾:

Parameter	Conditions			Specifications		
	RF (GHz)	LO (GHz)	IF (MHz)	Min	Typical	Max
SSB Conversion loss:	5.7 - 5.9	5.7 - 5.9	DC - 100	—	5.5 dB	6.0 dB
Isolation	LO to RF	5.7 - 5.9	—	38 dB	40 dB	—
	LO to IF	5.7 - 5.9	—	—	44 dB	—
	IF to RF	—	DC - 100	—	45 dB	—
1 dB Compression Point:	5.7 - 5.9	5.7 - 5.9	DC - 100	—	+4 dBm	—
LO Power :	5.7 - 5.9	5.7 - 5.9	DC - 100	—	+10 dBm	—

Notes:

- Noise figure is typically within ± 0.5 dB of conversion loss for IF frequencies greater than 10 MHz.
- Operating Temperature Range: -35°C to +70°C

Case Outline



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, FL 32905 · PH (888) 553-7531 · Fax (888) 553-7532 11/21/05

www.SpectrumMicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, PA 19154 · PH (215) 464-4000 · Fax (215) 464-4001