

I/Q MIXER/MODULATOR

MODEL MIQ24MS-5

Available as: MIQ24MS-5, .850" x 1.05"
Microstrip Carrier

Features

- Excellent Image Rejection
- High LO to RF Isolation: 35 dB Typical
- Operating Temp. - 55°C to +100°C

RF: 2 GHz
LO: 2 GHz ±62 MHz
IF: DC to 62 MHz

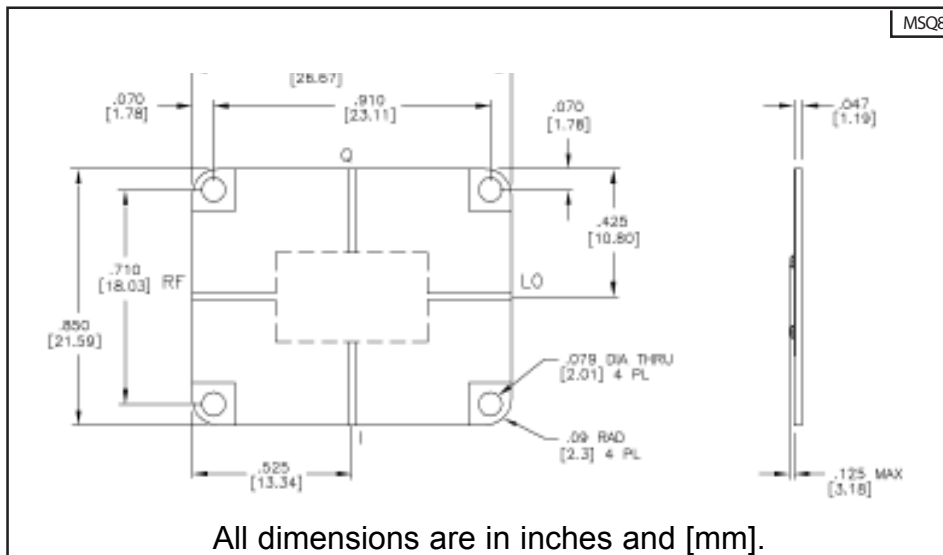
Electrical Specifications : ⁽¹⁾

Parameter	Conditions			Specifications		
	RF (GHz) (OUTPUT)	LO (GHz) (INPUT)	IF (MHz) (INPUT)	Min	Typical	Max
SSB Conversion loss:	2.0	2 GHz ±62 MHz	DC - 62	—	6.5 dB	8.0 dB
Isolations						
LO to RF	—	2 GHz ±62 MHz	—	25 dB	35 dB	—
LO to IF	—	2 GHz ±62 MHz	—	15 dB	20 dB	—
IF to RF	—	—	DC - 62	25 dB	30 dB	—
Sideband Suppression:	2.0	2 GHz ±62 MHz	DC - 62	25 dB	27 dB	—
LO Power Input:	2.0	2 GHz ±62 MHz	DC - 62	8.0 dB	10 dBm	11 dBm

Notes:

1. Specifications are guaranteed when tested as a downconverter in a 50 Ohm system at +25°C with an LO power of +10 dBm.
2. Noise figure is typically within ±0.5 dB of Conversion Loss for IF frequencies greater than 10 MHz.
3. Operating Temperature Range: -55°C to +100°C

Case Outline



Microstrip Traces: LO, RF, and IF traces are 0.02 in (0.51 mm) wide tin plated copper on Duroid, suitable for solder attach.

Typical Performance Data

