

E-Series I/Q Modulator 1930 - 1990 MHz



Features

- High 3I and 5I Suppression
- Surface Mount

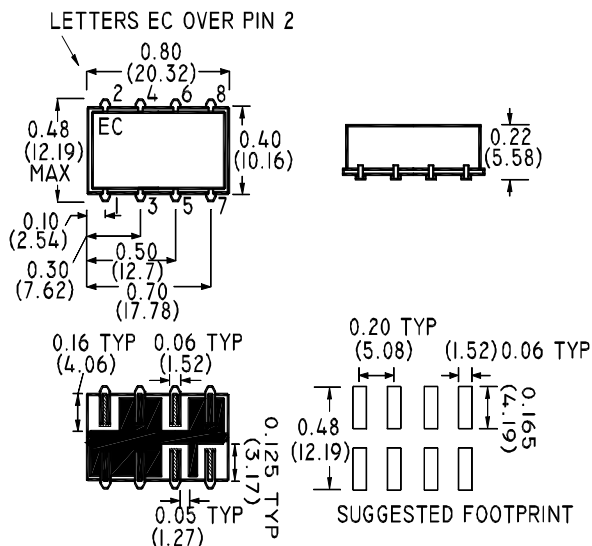


Description

M/A-COM's MAMDES0010 is a discrete surface mount I/Q Modulator.

SM-28 Package

Note: Non Hermetic Package



Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range				
(LO) Carrier	1930– 1990	MHz	—	—
I/Q	DC - 270	KHz	—	—
LO Carrier Suppression *	dBc	25	10	—
SSB Rejection *	dBc	23	18	—
Harmonic Suppression *				
3 x I/Q	dBc	45	35	—
5 x I/Q	dBc	55	45	—
Conversion Loss	dB	9.5	—	10.5
(LO) Carrier Power	dBm	+10 ± 1	—	—
I/Q Drive Level	dBm	-10.0	—	—
(LO) Port Return Loss	dBm	—	15	—

- Additional specifications: Tested under maximum adjustable rating DC offset = ±20mV, Q Power level: ±0.5dB

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Specifications subject to change without notice.

Operating Characteristics

Impedance	50 Ohms Nominal
Parameter	Absolute Maximum
Operating Temperature	-10°C to +85°C
Storage Temperature	-55°C to +100°C
Pin Temperature (10 Sec)	260°C

Functional Configuration

Function	Pin No.
LO	1
RF	8
I	5
Q	6
External 50 Ohms	—
Case Ground	2,3,4,7
Not Connected	—