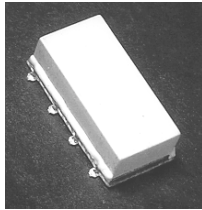


# M/A-COM E-Series I/Q Modulator

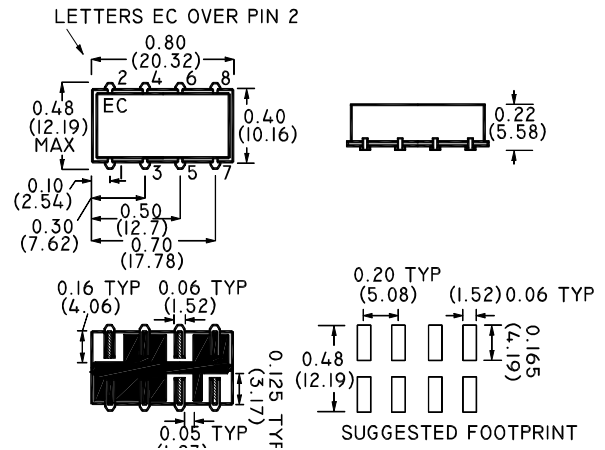
## 105 - 115 MHz

### Features

- High 3I and 5I Suppression
- High Carrier Suppression



### SM-28 Package



### Description

M/A-COM's MAMDES0011 is a Low Frequency I/Q Modulator.

### Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range				
(LO) Carrier	105– 1115	MHz	—	—
I/Q	DC - 10	MHz	—	—
LO Carrier Suppression *	dBc	40	30	—
SSB Rejection *	dBc	40	30	—
Harmonic Suppression *				
3 x I/Q	dBc	50	40	—
5 x I/Q	dBc	70	60	—
Conversion Loss	dB	6	—	8
(LO) Carrier Power	dBm	+10 ± 1	—	—
I/Q Drive Level	dBm	-10.0	—	—

- Note: When Q = +90 degrees relative to I; Lower Sideband is suppressed. Related to wanted Sideband Power.

Specifications subject to change without notice.

S 1609 A

V1.0

- North America: Tel. (800) 366-2266, Fax (800) 618-8883
- Asia/Pacific: Tel.+81-44-844-8296, Fax +81-44-844-8298
- Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

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Visit [www.macom.com](http://www.macom.com) for additional data sheets and product information.

## 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	—

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