

## E-Series I/Q Modulator 70 MHz

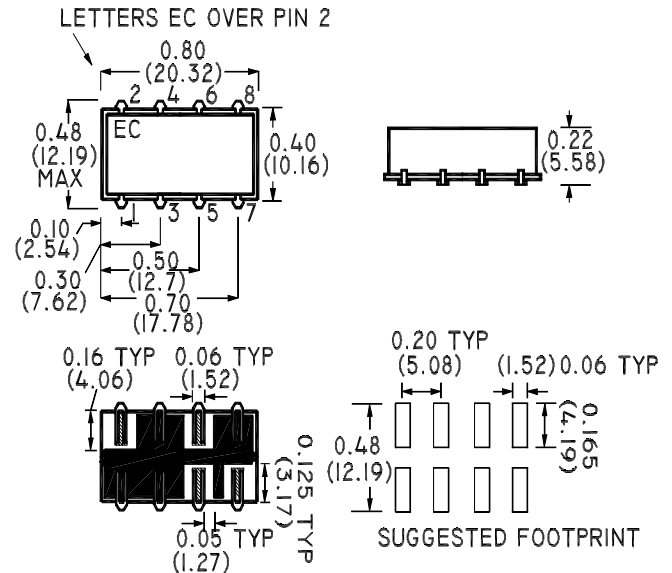


### Features

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



### SM-28 Package



### Description

M/A-COM's EKIN2-70 is a passive, high performance surface mount Modulator. It is ideally suited for IF Modulation in Cellular Base Stations. Typical system applications include GSM, DCS1800, W-CDMA and PCS.

### Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range (LO) Carrier	MHz	—	—	—
I/Q DC	MHz	—	—	—
(LO) Carrier Suppression *	dBc	40.0	30.0	—
SSB Rejection *	dBc	40.0	30.0	—
Harmonic Suppression *				
3 x I/Q	dBc	50.0	40.0	—
5 x I/Q	dBc	65.0	55.0	—
Conversion Loss	dB	5.2	—	6.5
(LO) Carrier Power	dBm	+10.0 ±2.0	—	—
I/Q Drive Level	—	-10.0	—	—
LO - RF Isolation	dB	64.0	50.0	—

\* Note: When Q = +90 degrees relative to I; Lower sideband is suppressed. Related to wanted sideband power.

Please note that the photograph above indicates package only, not actual unit.

## Absolute Maximum Ratings

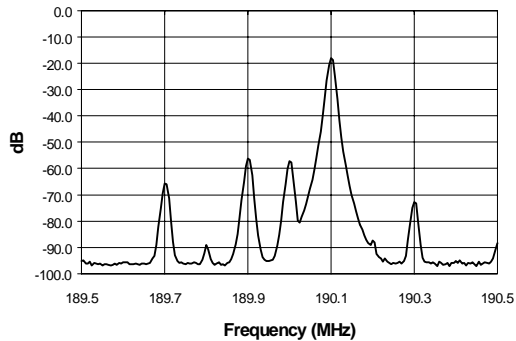
Parameter	Absolute Maximum
Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +100°C
Pin Temperature (10 Sec)	260°C

## Functional Configuration

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

## Typical Performance @ +25°C

### Harmonic Suppression



V2.00 S 0751 F



M/A-COM Division of AMP Incorporated ■ North America: Tel. (800) 366-2266, Fax (800) 618-8883 ■ Asia/Pacific: Tel.+85 2 2111 8088, Fax +85 2 2111 8087 ■ Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

[www.macom.com](http://www.macom.com)

AMP and Connecting at a Higher Level are trademarks.  
Specifications subject to change without notice.

