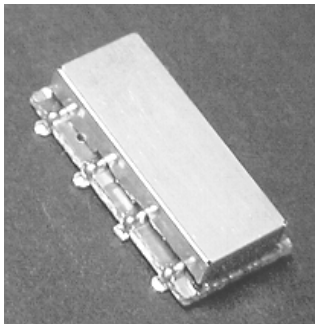




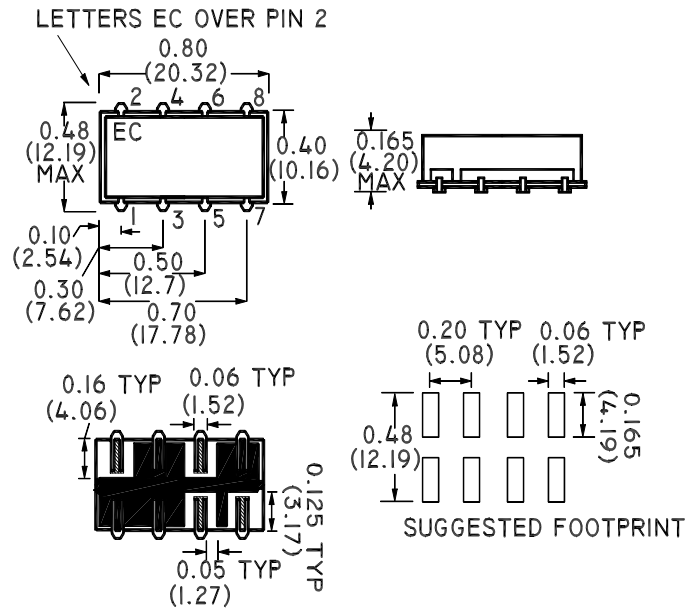
# E-Series I/Q Modulator 380 - 400 MHz

## Features

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



## SM-92 Package



## Description

M/A-COM's EKIN2-390X-2 is an I/Q Modulator. Ideally suited for Direct Modulation in PMR/TETRA applications.

## Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range				
(LO) Carrier	380 - 400	MHz	—	—
I/Q	DC - 1	MHz	—	—
LO Carrier Suppression *		dBc	35	30
SSB Rejection *		dBc	35	30
Harmonic Suppression *				
3 x I/Q	dBc	45	35	—
5 x I/Q	dBc	51	45	—
Conversion Loss		dB	6.5	8.5
(LO) Carrier Power		dBm	+10±1	—
I/Q Drive Level		dBm	-10	—

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

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

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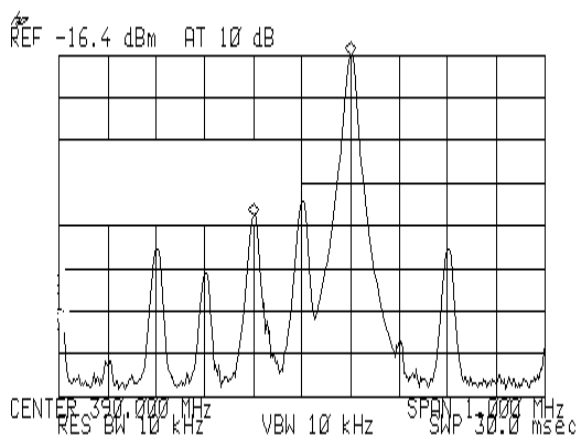
### Operating Characteristics

Impedance	50 Ohms Nominal
Parameter	Absolute Maximum
Operating Temperature	-40°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



V2.00 S 1408 D

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