

E-Series I/Q Modulator 380 - 400 MHz

Features

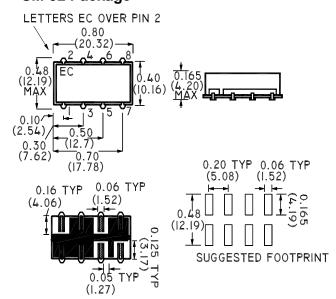
- **High Carrier Suppression**
- High 3I and 5I Suppression



Description

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

SM-92 Package



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.

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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- India Tel: +91.80.4155721
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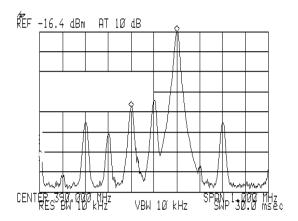
Operating Characteristics

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 E

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