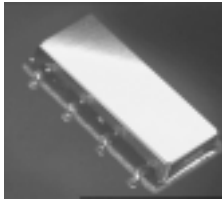


E-Series I/Q Modulator 410 - 430 MHz



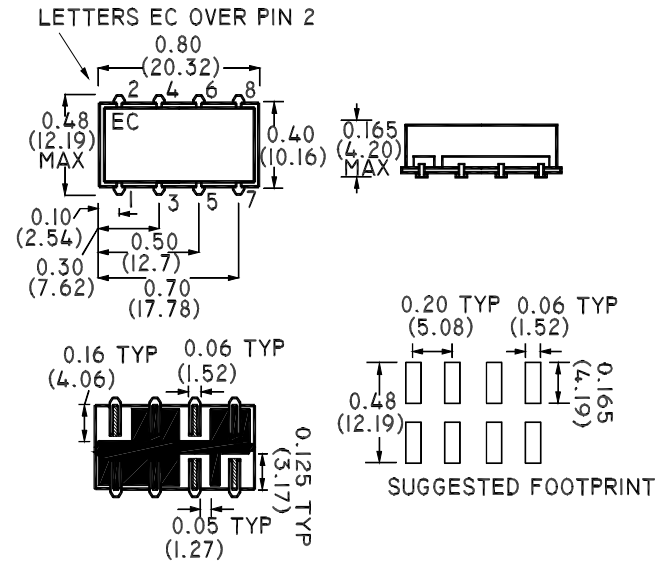
Features

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



SM-92 Package

Note: Non Hermetic Package



Description

M/A-COM's EKIN2-420X is a passive surface mount 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	MHz	—	—	—
I/Q	MHz	—	—	—
LO Carrier Suppression *	dBc	30	22	—
SSB Rejection *	dBc	35	30	—
Harmonic Suppression *				
3 x I/Q	dBc	45	35	—
5 x I/Q	dBc	55	45	—
Conversion Loss	dB	6.5	—	8.5
(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.

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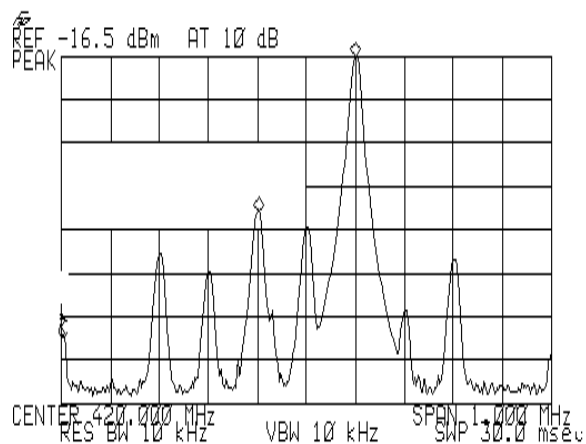
Operating Characteristics

Impedance	50 Ohms Nominal
Parameter	Absolute Maximum
Operating Temperature	-10°C to +70°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



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