

**E-Series I/Q Demodulator
410 - 430 MHz**



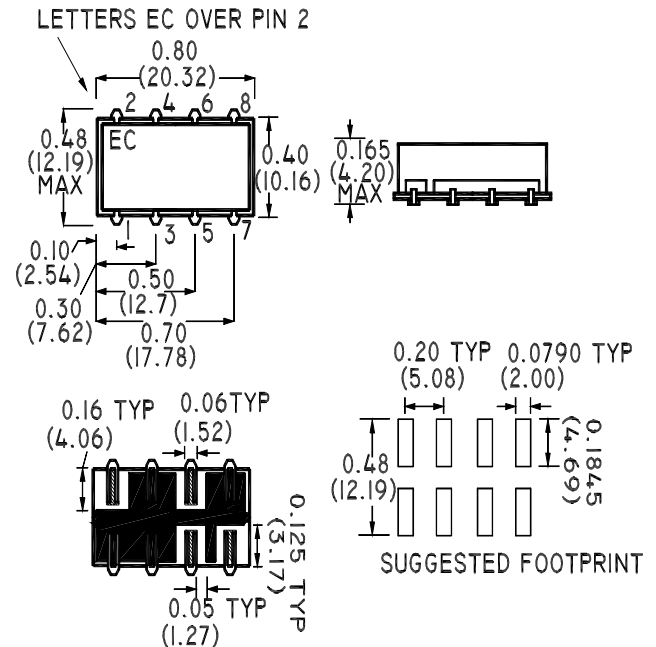
Features

- Excellent Phase and Amplitude Balance
- LO Power +10 dBm Typical
- Surface Mount



SM-92 Package

NON HERMATIC PACKAGE
METAL COVER



Description

M/A-COM's EKIN2-420DX is a passive, surface mount I/Q Demodulator. Ideally suited for Direct Demodulation in PMR/TETRA applications.

Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range	LO / RF	410 - 430	—	—
	I/Q	DC - 1	—	—
Amplitude Unbalance	dB	0.5	—	1.0
Phase Unbalance	Degrees	2.0	—	3.0
Isolation	LO to RF	55	40	—
	LO to I/Q	42	40	—
Conversion Loss	dB	6.4	—	8.0
(LO) Carrier Power	dBm	+10 ± 1	—	—

Q= -90° for RF>LO

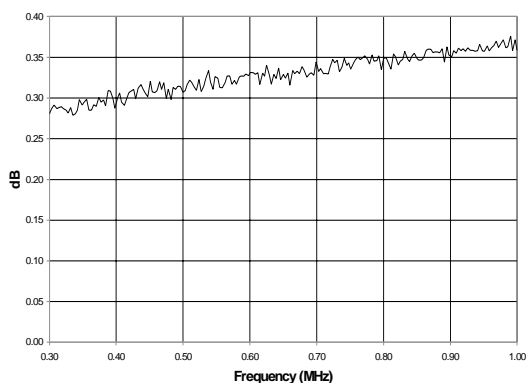
Absolute Maximum Ratings

Parameter	Absolute Maximum
Operating Temperature	-10°C to +70°C
Storage Temperature	-55°C to +100°C
Impedance	50 Ohms Nominal
RF Power (1dB Compression)	4 dBm Max

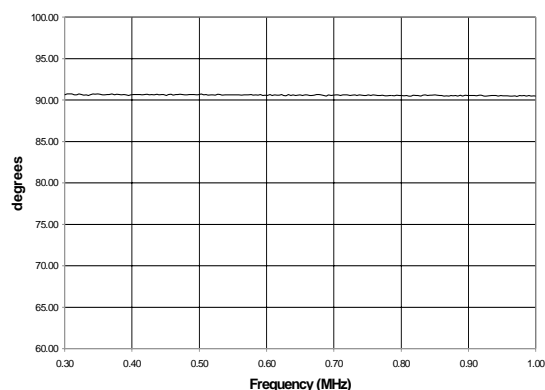
Functional Configuration

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

Amplitude Unbalance



Phase Unbalance



V1.00 S 1377 B



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