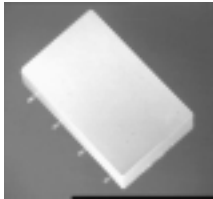


## E-Series I/Q Demodulator 215 - 225 MHz

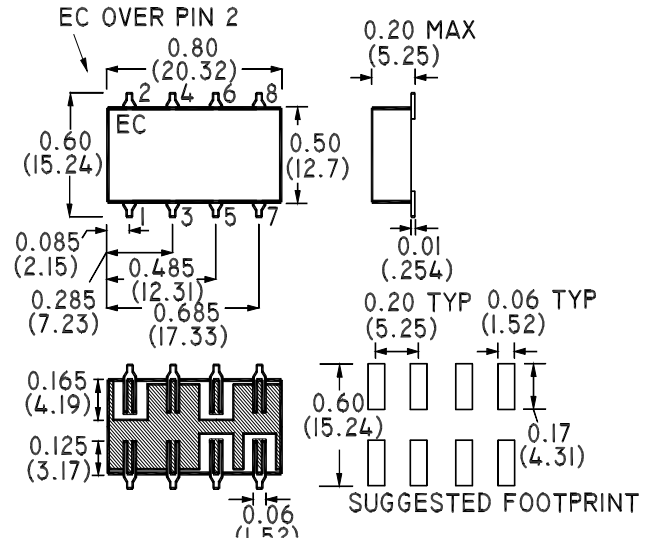


### Features

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



### SM-7-1 Package



### Description

M/A-COM's EKIN2-220D is a passive, high performance surface mount Demodulator. It is ideally suited for IF demodulation 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 / RF I/Q	215 - 225 MHz DC - 0.27 MHz	— —	— —	— —
Amplitude Unbalance	dB	0.3	—	0.5
Phase Unbalance	Degrees	1.0	—	1.5
Isolation LO to RF	dB	—	50.0	—
Conversion Loss	dB	6.0	—	7.0
(LO) Carrier Power	dBm	+10 ± 1	—	—
Q = I - 90 degrees for RF > LO	—	—	—	—

### Absolute Maximum Ratings

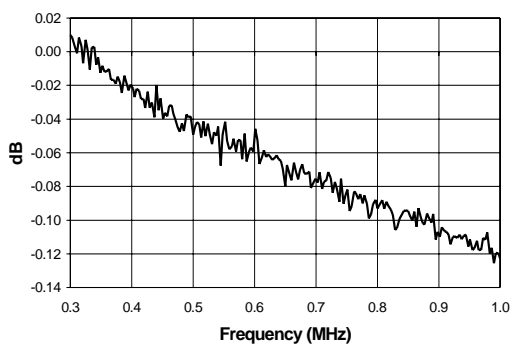
Parameter	Absolute Maximum
Operating Temperature	-10°C to +70°C
Storage Temperature	-55°C to +100°C
Impedance	50 Ohms Nominal
RF Power (1dB Compression)	2 dBm Max
DC Offset Voltage	2 mV Typ

### 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

Amplitude Unbalance



Phase Unbalance

