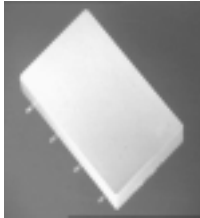


**E-Series I/Q Modulator  
215 - 225 MHz**

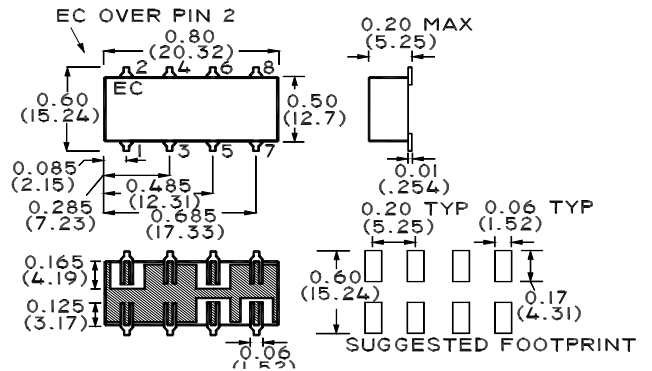


**Features**

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



**SM-7-1 Package**



**Description**

M/A-COM's EKIN2-220 is a passive, high performance surface mount Modulator. It is ideally suited for IF Modulation 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) Carrier	MHz	—	—	—
I/Q	MHz	—	—	—
(LO) Carrier Suppression *	dBc	40.0	30.0	—
SSB Rejection *	dBc	38.0	30.0	—
Harmonic Suppression *				
3 x I/Q	dBc	48.0	40.0	—
5 x I/Q	dBc	65.0	60.0	—
Conversion Loss	dB	6.0	—	7.0
(LO) Carrier Power	dBm	+10.0 ±1.0	—	±1.0
I/Q Drive Level	—	-10.0	—	—
LO - RF Isolation	dB	60.0	50.0	—

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

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

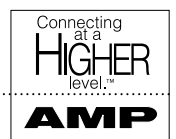
V2.00 S 0698 E



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## Absolute Maximum Ratings

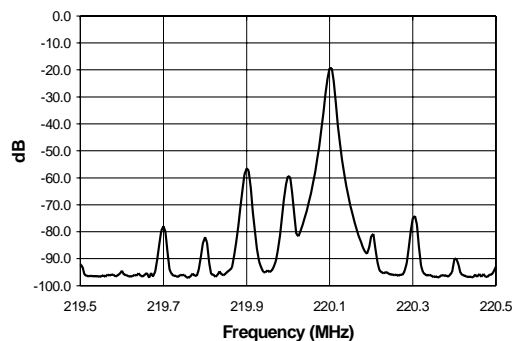
Parameter	Absolute Maximum
Operating Temperature	-10°C to +70°C
Storage Temperature	-55°C to +100°C
Pin Temperature (10 Sec)	260°C

## 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

### Harmonic Suppression



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