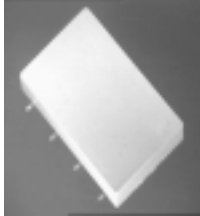


E-Series I/Q Modulator 215 - 225 MHz

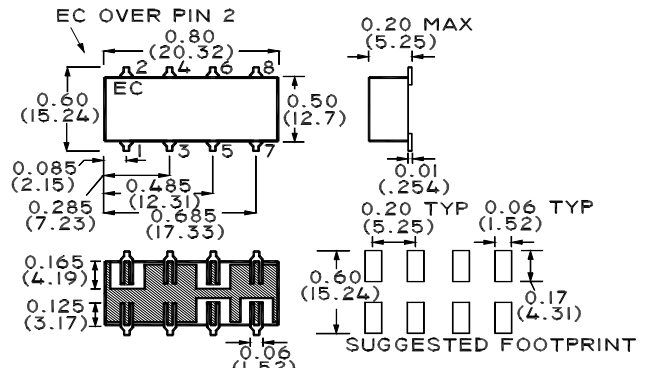


Features

- 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.

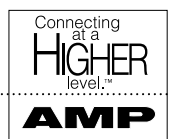
V2.00 S 0698 E



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Absolute Maximum Ratings

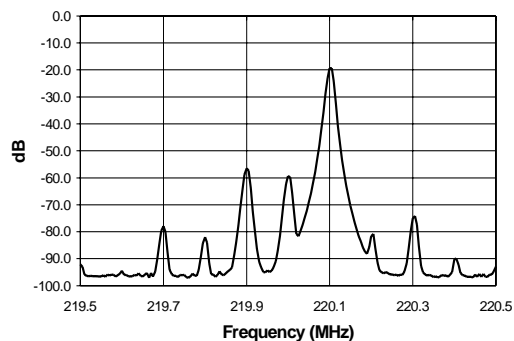
| Parameter | Absolute Maximum |
|--------------------------|------------------|
| Operating Temperature | -10°C to +70°C |
| Storage Temperature | -55°C to +100°C |
| Pin Temperature (10 Sec) | 260°C |

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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