

E-Series I/Q Demodulator 410 - 430 MHz



Features

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

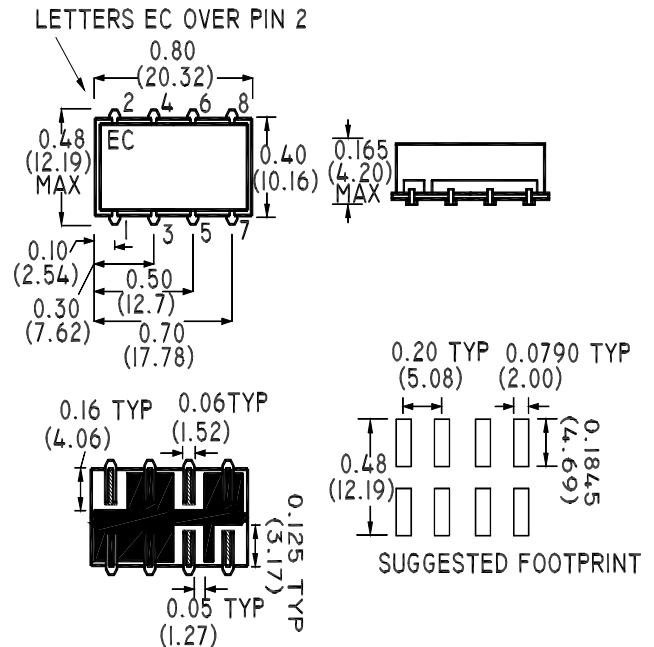


Description

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

SM-92 Package

NON HERMATIC PACKAGE
METAL COVER



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

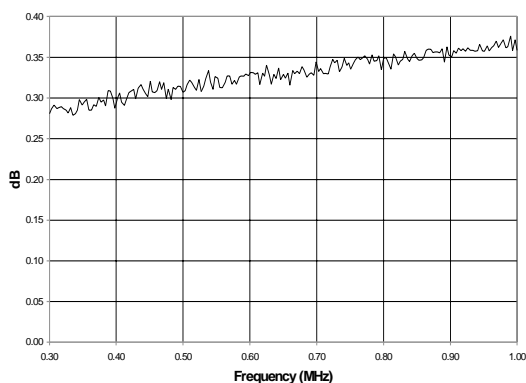
Absolute Maximum Ratings

| 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 |

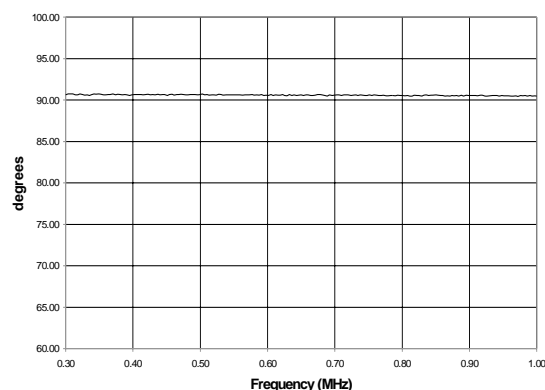
Functional Configuration

| 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



M/A-COM Division of AMP Incorporated ■ North America: Tel. (800) 366-2266, Fax (800) 618-8883 ■ Asia/Pacific: Tel. +85 2 2111 8088, Fax +85 2 2111 8087 ■ Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

www.macom.com

AMP and Connecting at a Higher Level are trademarks.
Specifications subject to change without notice.

