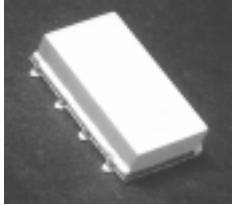


E-Series I/Q Demodulator 70 MHz

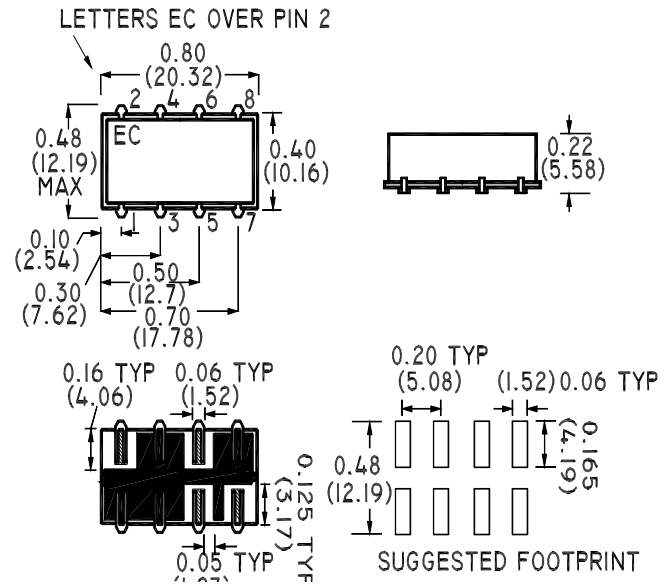


Features

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



SM-28 Package



Description

M/A-COM's EKIN2-70D 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	70	—	—
	I/Q	DC - 5	—	—
Amplitude Unbalance	dB	0.2	—	1.0
Phase Unbalance	Degrees	0.5	—	2.0
Isolation	LO to RF	dB	65	50
Conversion Loss	dB	8.0	—	9.0
(LO) Carrier Power	dBm	+10 ± 2	—	—
Q = I - 90 degrees for RF > LO	—	—	—	—

Absolute Maximum Ratings

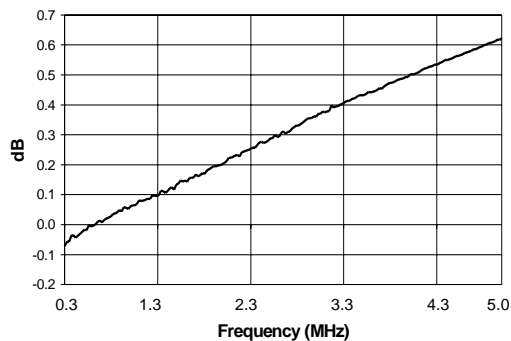
Parameter	Absolute Maximum
Operating Temperature	-10°C to +70°C
Storage Temperature	-55°C to +100°C
Impedance	50 Ohms Nominal
RF Power (1dB Compression)	+4 dBm Max
DC Offset Voltage	1 mV Typ

Functional Configuration

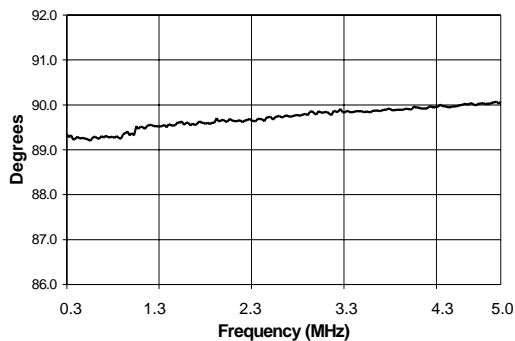
Function	Pin No.
LO	1
RF	8
I	5
Q	6
External 50 Ohms	—
Case Ground	2,4,3,7
Not Connected	—

Typical Performance @ +25°C

Amplitude Unbalance



Phase Unbalance



V2.00 S 0783 D



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.

