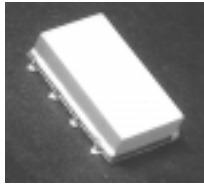


E-Series I/Q Demodulator 135 - 176 MHz

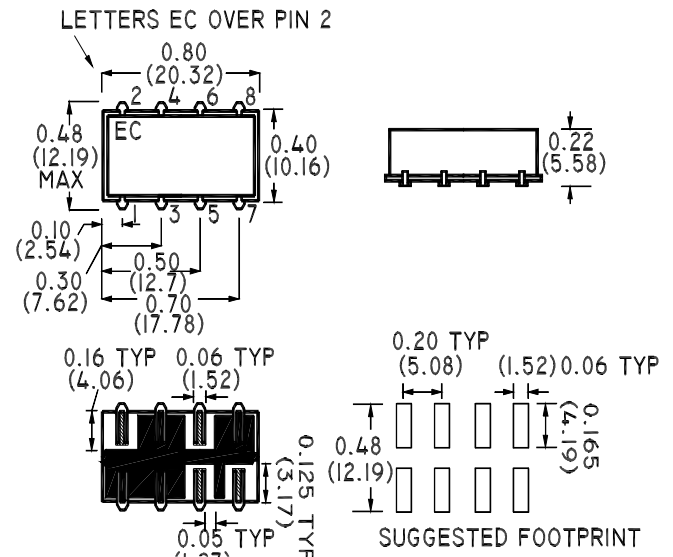


Features

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



SM-28 Package



Description

M/A-COM's EKIN2-155WD is a broadband, passive, surface mount I/Q demodulator. 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	135 - 176	—	—
	I/Q	DC - 5	—	—
Amplitude Unbalance	dB	0.2	—	0.5
Phase Unbalance	Degrees	2.0	—	5.0
Isolation	LO to RF	50	45	—
	LO to I/Q	35	30	—
Conversion Loss	dB	6.0	—	7.0
(LO) Carrier Power	dBm	+10 ± 1	—	—
VSWR	RF Port	—	—	2:1
	LO Port	—	—	2:1
	I/Q Port	—	—	2:1

Absolute Maximum Ratings

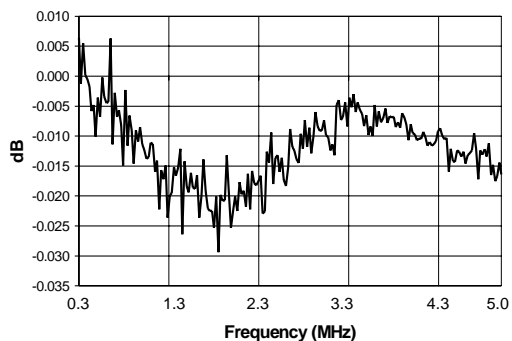
Parameter	Absolute Maximum
Operating Temperature	-10°C to +70°C
Storage Temperature	-55°C to +100°C
Impedance	50 Ohms Nominal
RF Power (1dB Compression)	4 dBm Max
DC Offset Voltage	1 mV Typ

Functional Configuration

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

Typical Performance @ +25°C

Amplitude Unbalance



Phase Unbalance

