

E-Series I/Q Modulator

935 - 960 MHz

EKIN2-947

V3.00

Features

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

Specifications @ 25°C

Frequency Range (LO) Carrier I/Q	935 - 960 MHz DC - 2 MHz
(LO) Carrier Suppression ¹	Minimum 30 dBc
SSB Rejection ¹	Minimum 30 dBc
Harmonic Suppression ¹ 3 x I/Q	Minimum 38 dBc
5 x I/Q	Minimum 55 dBc
Conversion Loss	Maximum 9 dB
(LO) Carrier Power	+10 ±1 dBm
I/Q Drive Level	-10 dBm

1. When Q = +90° relative to I; Lower sideband is suppressed.
Related to wanted sideband power.

Operating Characteristics

Impedance	50 Ohms Nominal
-----------	-----------------

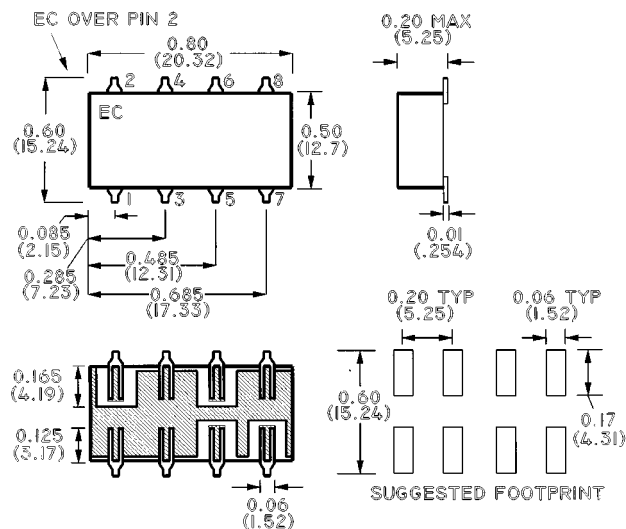
Ordering Information

Part No. EKIN2-947	Packaging Tube
------------------------------	--------------------------

Absolute Maximum Ratings

Parameter	Absolute Maximum
Operating Temp.	-10°C to +70°C
Storage Temp.	-55°C to +100°C
Pin Temp (10 sec)	260°C

SM-7-1



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
.xx = ±0.02 (.x = ±0.5)

Pin Configuration

Function	Pin No.
LO	1
RF	8
I	5
Q	6
Case Ground	2,3,4,7

S 0649 C