

E-Series I/Q Modulator

300 MHz

EKIN2-300

V2.00

Features

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

Specifications @ 25°C

Frequency Range (LO) Carrier I/Q		300 MHz DC - 0.27 MHz
(LO) Carrier Suppression ¹	Typical 35 dBc	Minimum 30 dBc
SSB Rejection ¹	Typical 36 dBc	Minimum 30 dBc
Harmonic Suppression ¹ 3 x I/Q 5 x I/Q	Typical 55 dBc 65 dBc	Minimum 40 dBc 60 dBc
Conversion Loss	Typical 5.5 dB	Maximum 6.5 dB
(LO) Carrier Power		+10 ±2 dBm
I/Q Drive Level		-10 dBm
LO - RF Isolation	Typical 57 dB	Minimum 52 dB

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

Operating Characteristics

Impedance	50 Ohms Nominal
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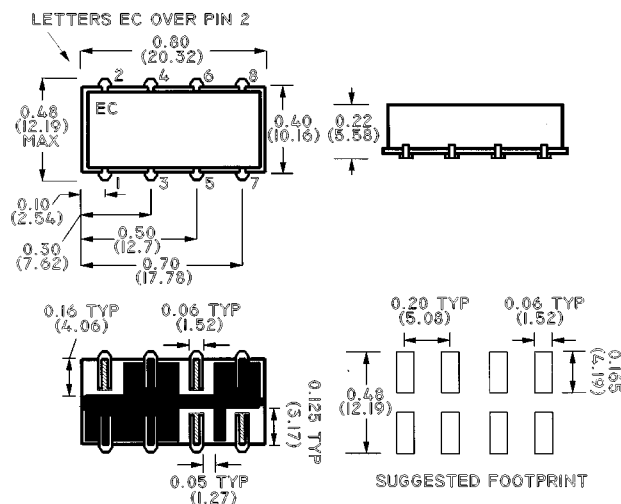
Ordering Information

Part No.	Package
EKIN2-300	Tube
EKIN2-300TR	Forward Tape & Reel

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°

SM-28



Dimensions in () are in mm.
Unless Otherwise Noted: .x = ±0.04 (1.00)
.xx = ±0.02 (0.50)
.xxx = ±0.010 (0.250)

Pin Configuration

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

Specifications Subject to Change Without Notice.

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