

E-Series I/Q Modulator 70 MHz

EKIN2-70

V3.00

Features

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

Specifications @ 25°C

Frequency Range (LO) Carrier I/Q		70 MHz DC - 0.27 MHz
(LO) Carrier Suppression ¹	Typical 40 dBc	Minimum 30 dBc
SSB Rejection ¹	Typical 40 dBc	Minimum 30 dBc
Harmonic Suppression ¹ 3 x I/Q 5 x I/Q	Typical 50 dBc 65 dBc	Minimum 40 dBc 55 dBc
Conversion Loss	Typical 5.2 dB	Maximum 6.5 dB
(LO) Carrier Power		+10 ±2 dBm
I/Q Drive Level		-10 dBm
LO - RF Isolation	Typical 64 dB	Minimum 50 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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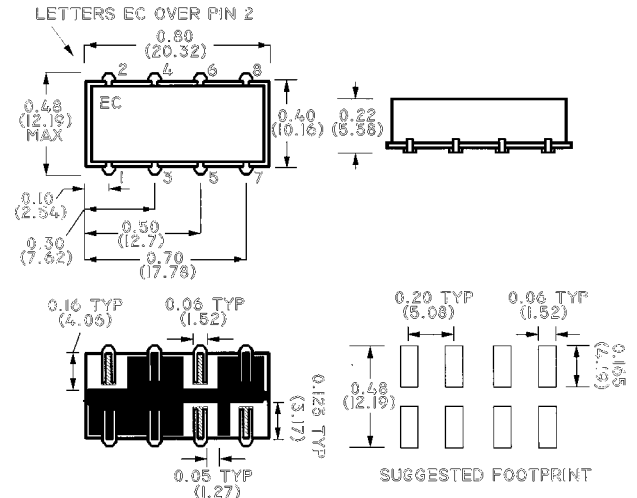
Ordering Information

Part No. EKIN2-70 EKIN2-70TR	Packaging Tube Forward Tape & Reel
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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-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

S 0751 C

Specifications Subject to Change Without Notice.

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