

E-Series I/Q Modulator

140 - 160 MHz

EKIN2-150W

V3.00

Features

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

Specifications @ 25°C

Frequency Range (LO) Carrier I/Q		140 - 160 MHz DC - 11 MHz
(LO) Carrier Suppression ¹	Typical 34 dBc	Minimum 30 dBc
SSB Rejection ¹	Typical 34 dBc	Minimum 30 dBc
Harmonic Suppression ¹ 3 x I/Q 5 x I/Q	Typical 42 dBc 60 dBc	Minimum 40 dBc 55 dBc
Conversion Loss	Typical 7.0 dBc	Maximum 9.0 dB
(LO) Carrier Power		10 dB ±1 dBm
I/Q Drive Level		-10 dBm

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

Operating Characteristics

Impedance	50 Ohms Nominal
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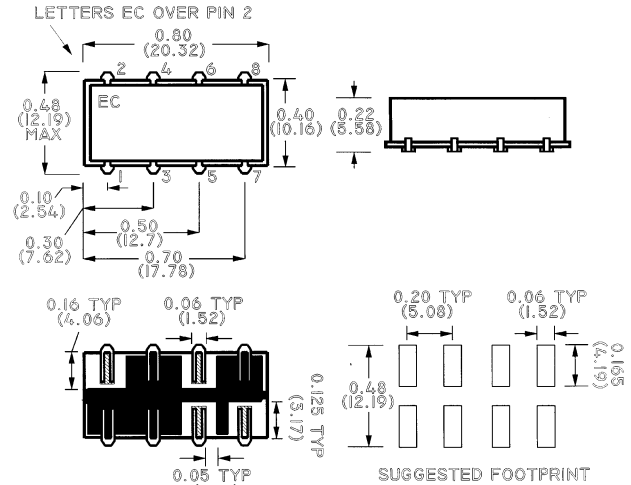
Ordering Information

Part No. EKIN2-150W EKIN2-150WTR	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



Pin Configuration

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

S 0891 B

Specifications Subject to Change Without Notice.

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