

E-Series I/Q Modulator

380 - 400 MHz

EKIN2-390D

V3.00

Features

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

Specifications @ 25°C

Frequency Range	LO / RF I/Q	380 - 400 MHz DC - 5 MHz
Amplitude Unbalance	Typical 0.3 dB	Maximum 0.5 dB
Phase Unbalance	Typical 1.0°	Maximum 1.5°
Isolation	Typical	Minimum
LO to RF	55 dB	40 dB
LO to I/Q ¹	42 dB	40 dB
Conversion Loss	Typical 7.8 dB	Maximum 9.0 dB
(LO) Carrier Power		+10 ±1 dBm
DC Offset Voltage		1mV Typical

Operating Characteristics

Operating Temp.	-10°C to +70°C
Storage Temp.	-40°C to +85°C
Impedance	50 Ohms Nominal
RF Power (1dB Compression)	4 dBm Maximum

1. With use of recommended Diplex Filters, the LO to I/Q isolation becomes 70 dB.

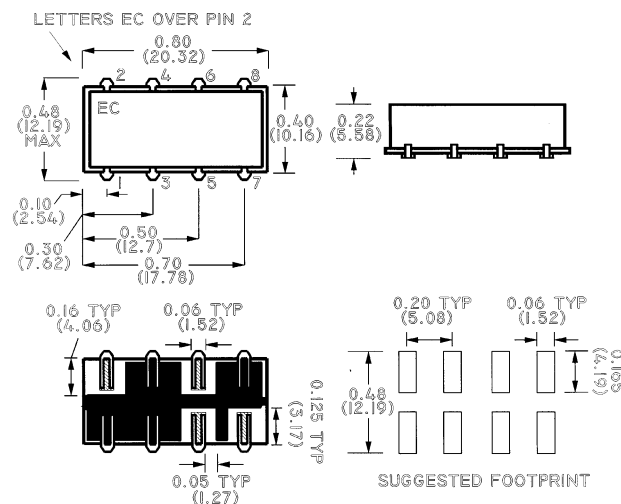
Ordering Information

Part No.	Package
EKIN2-390D	SM-28 in Tubes
EKIN2-390DTR	SM-28 in Forward Tape & Reel

Pin Configuration

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

SM-28



Dimensions in () are in mm.
Unless Otherwise Noted: .x = ±0.04 (1.00)
.xx = ±0.02 (.x = ±0.50)
.xxx = ±0.010 (.xx = ±0.25)

Specifications Subject to Change Without Notice.

S 0888 A, S 1135 A

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