E-Series I/Q Modulator
869 - 894 MHz

EKIN2-880, EKIN2-881

V2.00

Features

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

Specifications @ 25°C

Parameter	EKIN2-880	EKIN2-881
Frequency Range		
(LO) Carrier	869 - 894 MHz	869 - 894 MHz
I/Q	DC - 0.27 MHz	DC - 2.0 MHz
(LO) Carrier Suppression[1]	Minimum 30 dBc	Minimum 30 dBc
SSB Rejection[1]	Minimum 30 dBc	Minimum 30 dBc
Harmonic Suppression[1]	Minimum	Minimum
3 x I/Q	38 dBc	38 dBc
5 x I/Q	55 dBc	55 dBc
Conversion Loss	Maximum 7.5 dB	Maximum 9.0 dB
(LO) Carrier Power	+10 ±1 dBm	+10 ±1 dBm
I/Q Drive Level	-10 dBm	-10 dBm

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

Operating Characteristics

Impedance	50 Ohms Nominal

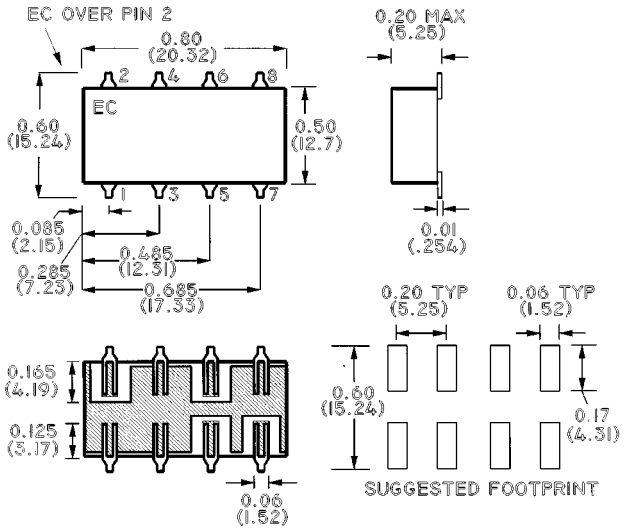
Ordering Information

Part No.	Packaging
EKIN2-880, EKIN2-881	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 0643 B, S 0646 C

North America: Tel. (800) 366-2266 Fax (800) 618-8883 ■ Asia/Pacific: Tel. +81 (03) 3226-1671 Fax +81 (03) 3226-1451 ■ Europe: Tel. +44 (1344) 869 595 Fax +44 (1344) 300 020