

E-Series Surface Mount Mixer

3415 - 3500 MHz

ESMD-3500DC

V3.00

Features

- LO Power: +7 dBm
- Up to +7 dBm RF
- Surface Mount

Specifications @ 25°C

Frequency Range		
RF		3415 - 3500 MHz
LO		2470 - 2595 MHz
IF		880 - 970 MHz
Conversion Loss (dB)		Maximum
3415 - 3500 MHz		10
Isolation (dB)		Typical Minimum
LO to RF		
2470 - 2595 MHz	23	15
LO to IF		
2470 - 2595 MHz	18	12
VSWR		Typical Maximum
LO	2.4:1	2.7:1
RF	2.4:1	2.7:1
IF	1.3:1	1.8:1
VSWR Test Conditions:		
RF		3415 - 3500 MHz
LO		2470 - 2595 MHz
IF		880 - 970 MHz
Two Tone Third Order Input Intercept (dBm)		+5 dBm Typical
Test Condition 1		
RF1: 3415 MHz @ -10 dBm		
RF2: 3416 MHz @ -10 dBm		
LO: 2475 MHz @ +7 dBm		
Test Condition 2		
RF1: 3500 MHz @ -10 dBm		
RF2: 3501 MHz @ -10 dBm		
LO: 2560 MHz @ +7 dBm		

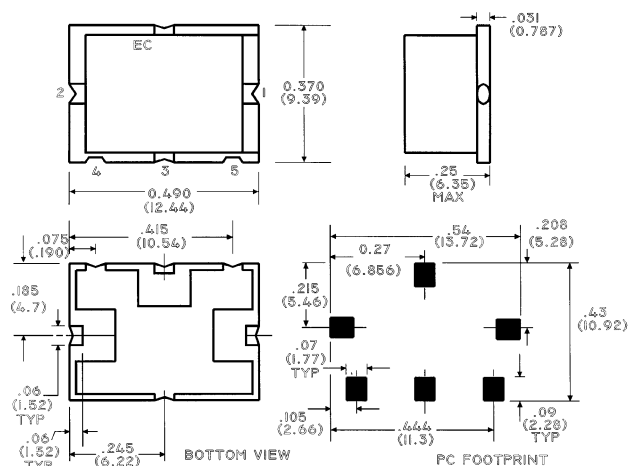
Operating Characteristics

Impedance	50 Ohms Nominal
RF input for 1dB Compression	+ 7 dBm

Ordering Information

Part No.	Packaging
ESMD-3500DC	Tube
ESMD-3500DCTR	Forward Tape & Reel

SM-2



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	2
RF	1
IF	3
Ground	4,5

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-55°C to 100°C
Operating Temperature	-55°C to 100°C
Pin Temperature (10 Seconds)	260°C

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Specifications Subject to Change Without Notice.

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