

# E-Series Surface Mount Mixer

## 20 - 1500 MHz

# ESMD-C2

V3.00

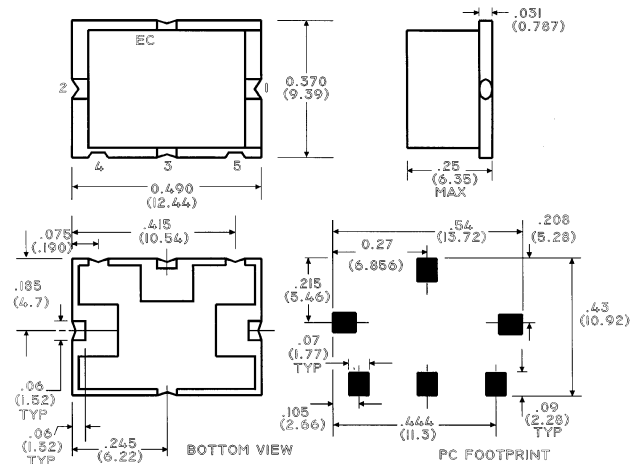
### Features

- LO Power: +7 dBm
- Up to +1 dBm RF
- Surface Mount

### Specifications @ 25°C

Frequency Range		
RF		20 - 1500 MHz
LO		20 - 1500 MHz
IF		DC - 1500 MHz
Conversion Loss (dB)	Typical	Maximum
40 - 750 MHz	7.0	8.5
20 - 1500 MHz	8.5	9.0
Isolation (dB)	Typical	Minimum
LO to RF		
20 - 200 MHz	50	35
200 - 750 MHz	35	25
750 - 1500 MHz	20	10
LO to IF		
20 - 200 MHz	40	25
200 - 750 MHz	25	18
750 - 1500 MHz	15	8

### 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)

### Operating Characteristics

Impedance	50 Ohms Nominal
RF input for 1dB Compression	+ 1 dBm
DC Polarity	Positive

### Ordering Information

<b>Part No.</b>	<b>Packaging</b>
ESMD-C2	SM-2 in Tubes
ESMD-C2TR	SM-2 in Tape & Reel

### 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

### Pin Configuration

Function	Pin No.
LO	2
RF	1
IF	3
Ground	4,5

S 0330 C, S 0754 B

Specifications Subject to Change Without Notice.

**M/A-COM, Inc.**

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