

# LM1500 Series

## Half Size Voltage Controlled Crystal Oscillator (VCXO)

- HCMOS/TTL Output
- 5.0V Supply Voltage
- 8 pin DIP package
- Wide Frequency and Pull range

ELECTRICAL SPECIFICATIONS	
Frequency Range	500 KHz – 160MHz
Frequency Stability	±25ppm      ±50ppm      ±100ppm
Operating Temperature Range	0 ~ +70°C
Storage Temperature Range	-55 ~ +125°C
Input Voltage	+5.0V <sub>DC</sub> ±10%
Input Current	500kHz to 25.000MHz      25mA Max 25.000MHz to 40.000MHz      35mA Max 40.000MHz to 90.000MHz      50mA Max 90.000MHz to 160.000MHz      55mA Max
Symmetry (Duty Cycle)	50±10% , 50±5%
Logic "0" Level	0.4V <sub>DC</sub> Max
Logic "1" Level	V <sub>DD</sub> – 0.5V <sub>DC</sub> Min
Rise Time / Fall Time	5nSeconds Max
Frequency Control Voltage	0.5V <sub>DC</sub> to 4.5V <sub>DC</sub> , 0V to 5.0V <sub>DC</sub>
Frequency Pullability	±50ppm Min, ±100ppm Min, ±150ppm Min, ±200ppm Min
Output Load Capability	10TTL or 15pF HCMOS
Linearity	±20%, ±15%, ±10%, ±5%,

## PART NUMBERING GUIDE

**LM1500 .3 C – 44.736MHz**

### Input Voltage

Blank - 5V  
.3 - 3.3V  
.2 - 2.5V  
.18 - 1.8V

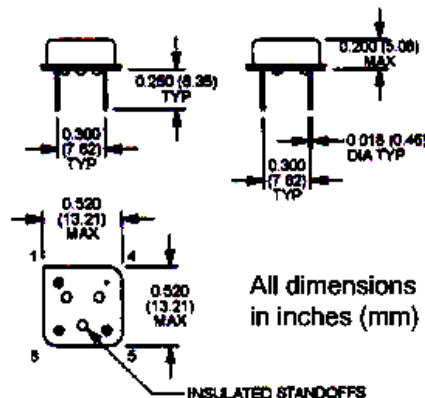
### Frequency Tolerance/Stability

Blank or A - ±100ppm  
B - ± 50ppm  
C - ± 25ppm  
X - Customer Specified

### Frequency

Available Options  
Blank - standard  
G - Gull Wing  
J - J-Lead  
ET - Extended Temp (-40~+85°C)

## PACKAGE DIMENSIONS



Pin 1: Control Voltage  
Pin 4: Case Ground  
Pin 5: Output  
Pin 8: Supply Voltage

## General Electronic Devices

320 So. Pacific St. San Marcos, CA 92069 Tel: (760) 591-4170 Fax: (760) 591-4164 Email: gedlm@4dcomm.com Website: www.gedlm.com