

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 _{DC} ±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 _{DC} Max		
Logic "1" Level	V _{DD} – 0.5V _{DC} Min		
Rise Time / Fall Time	5nSeconds Max		
Frequency Control Voltage	0.5V _{DC} to 4.5V _{DC} , 0V to 5.0V _{DC}		
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

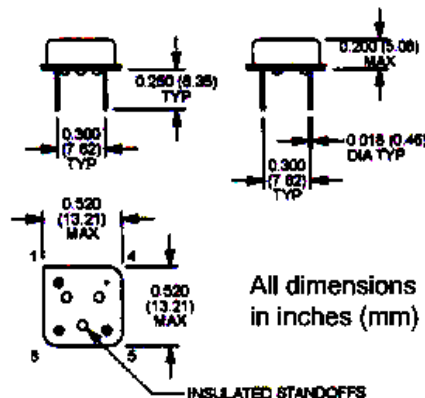
Frequency Tolerance/Stability

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



All dimensions
in inches (mm)

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