

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

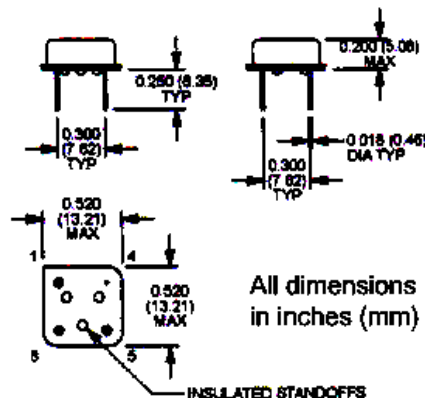
Frequency Tolerance/Stability

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



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