

LM2500N Series

Full Size Negative Slope Voltage Controlled Crystal Oscillator (VCXO)

- HCMOS/TTL Output
- 3.3V and 5.0V Supply Voltage
- 14 pin DIP package
- Wide Frequency and Pull range

ELECTRICAL SPECIFICATIONS	
Frequency Range	500 KHz – 160MHz
Frequency Stability	±25ppm ±50ppm ±100ppm
Operating Temperature Range	0°C ~ +70°C or -40°C to +85°C
Storage Temperature Range	-55 ~ +125°C
Input Voltage	+3.3V _{DC} ±10% +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

LM2500N .3 C - 44.736MHz

Input Voltage

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

Frequency Tolerance/Stability

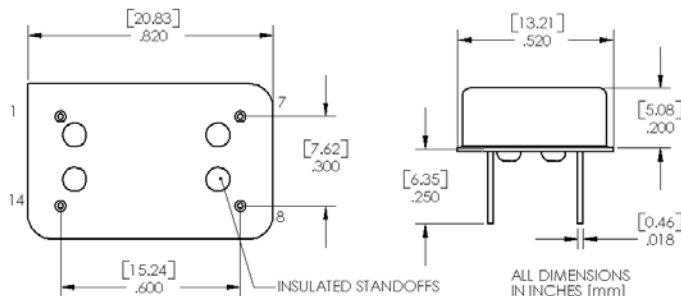
Blank or A - ±100ppm
B - ± 50ppm
C - ± 25ppm
X - Customer Specified

Frequency

Available Options

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

PACKAGE DIMENSIONS



Pin 1: Control Voltage
Pin 7: Case Ground
Pin 8: Output
Pin 14: Supply Voltage

General Electronic Devices

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