

# LM2500.3 Series

## Full Size Voltage Controlled Crystal Oscillator (VCXO)

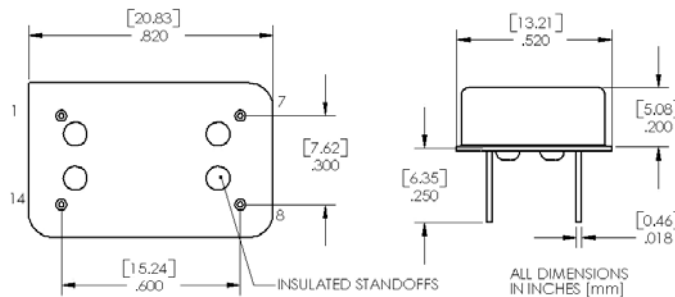
- HCMOS/TTL Output
- 3.3V Supply Voltage
- 14 pin DIP package
- Wide Frequency and Pull range

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

<b>LM2500 .3 C – 44.736MHz</b>	
<b>Input Voltage</b> Blank - 5V .3 - 3.3V .2 - 2.5V .18 - 1.8V	<b>Frequency</b>
<b>Frequency Tolerance/Stability</b> Blank or A - ±100ppm B - ± 50ppm C - ± 25ppm X - Customer Specified	<b>Available Options</b> 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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