

# LM1100 Series

## Full Size HCMOS/TTL Compatible Oscillators

- HCMOS/TTL Output
- 5.0V Supply Voltage
- 14 pin DIP package
- Gull wing / J-Lead Option

ELECTRICAL SPECIFICATIONS			
Frequency Range		300 KHz – 40MHz	40 MHz – 175MHz
Frequency Stability		±25ppm	±50ppm ±100ppm
Operating Temperature Range		0 ~ +70°C (TTL), -20 ~ +70°C (CMOS)	
Storage Temperature Range		-55 ~ +125°C	
Input Voltage		+5.0V <sub>DC</sub> ±10%	
Input Current		30mA Max	40mA Max
Symmetry		40/60 ~ 60/40% or 45/55 ~ 55/45% (at 1.4V or ½ V <sub>DD</sub> )	
Rise / Fall Time	TTL	5nSeconds Max	5nSeconds Max
	CMOS	6nSeconds Max	6nSeconds Max
Output Level	TTL	V <sub>OL</sub> : 0.4V Max V <sub>OH</sub> : +2.4V Min	V <sub>OL</sub> : 0.4V Max V <sub>OH</sub> : +2.4V Min
	CMOS	V <sub>OL</sub> : 0.5V Max V <sub>OH</sub> : V <sub>DD</sub> – 0.5V Min	V <sub>OL</sub> : 0.5V Max V <sub>OH</sub> : V <sub>DD</sub> – 0.5V Min
Output Load		CMOS, compatible, 1~10TTL Gates	
Pin 1 Tri-state Input Voltage		No connection	Enables Output
		V <sub>IH</sub>	2.4V <sub>DC</sub> Min to Enable Output
		V <sub>IL</sub>	0.8V <sub>DC</sub> Max to Disable Output

## PART NUMBERING GUIDE

### LM1100 .3 C (E/D) G – 100.000MHz

**Input Voltage**

Blank - 5V  
.3 - 3.3V

**Frequency Tolerance/Stability**

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

**Frequency**

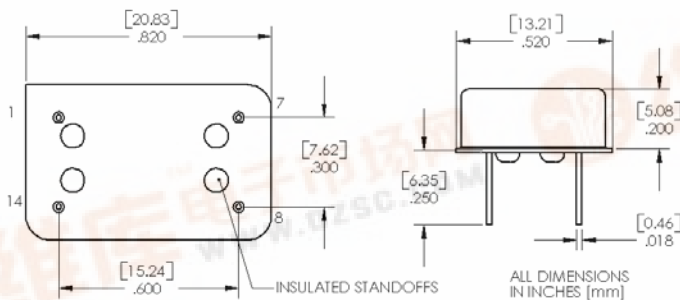
**Available Lead Option**

Blank - standard  
G - Gull Wing  
J - J-Lead

**Pin 1 Connection**

Blank - No connection  
(E/D) - Enable/Disable function or Tristate

## PACKAGE DIMENSIONS



Pin 1: No connect or Tristate  
Pin 7: Case Ground  
Pin 8: Output  
Pin 14: Supply Voltage