

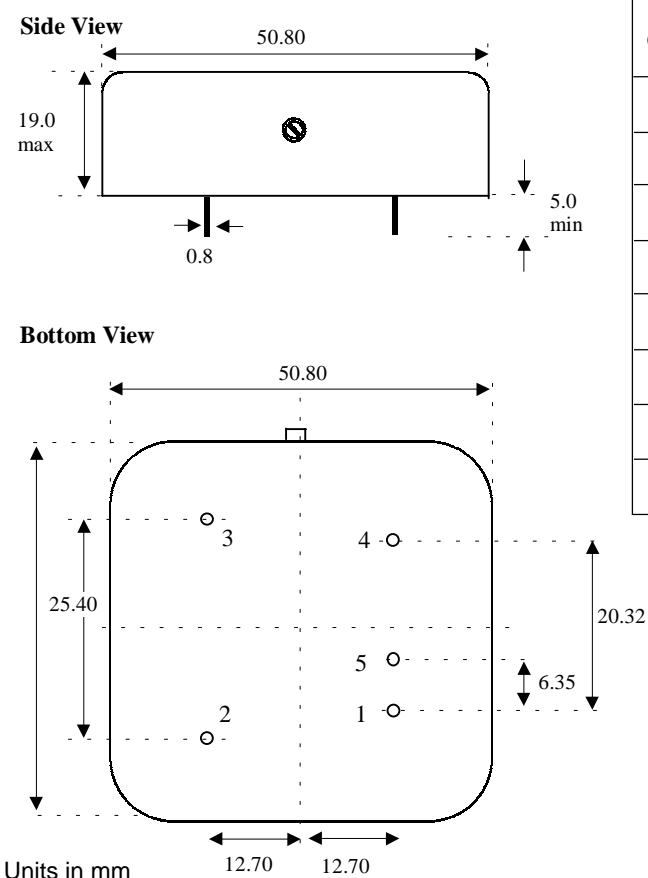
LMTC1070 Series Temperature Compensated Crystal Oscillator

FREQUENCY CHARACTERISTICS	
Nominal Frequency	1 MHz to 120 MHz (HCMOS/TTL) 3 MHz to 100 MHz (Sine)
Frequency at room temperature	±1.0 PPM at 25° C ±2° C
Operating temperature stability	For HCMOS/TTL See table below (Stability referring 25°C) For Sine 0 to 60 / ± 1.0 PPM
Supply voltage stability	±0.1 PPM/ Volt
Frequency adjustment	Internal Trimmer
Long term aging rate	±1 PPM/year max.

POWER SUPPLY	
Voltage	+5 to 15 V DC (±5%) for HCMOS/TTL +9 to 15 V DC (±5%) for Sine
Current	20 mA max. < 20 MHz 30 mA max. 20 to 50 MHz 50 mA max. >50 MHz

OSCILLATOR OUTPUT		CODE
Output	HCMOS TTL Sine (+7 dBm into 50 Ohms)	H T S
Rise/Fall times for HCMOS/TTL	10 nS max.	
Duty cycle for HCMOS/TTL	40 to 60%	

OUTLINE AND PIN CONFIGURATION



STABILITY TABLE

Codes	Stability Codes Frequency Stability Range	X	Y	Z	P
		±0.5 PPM	±1.0 PPM	±1.5 PPM	±2.0 PPM
A	0 to +50° C				
B	0 to +60° C				
F	0 to +70° C				
D	-10 to +60° C				
E	-10 to +70° C				
C	-20 to +70° C				
G	-30 to +80° C				
H	-30 to +85° C				

- Pin connection**
- 1 : Output
 - 2 : DC Input
 - 3 : Ground
 - 4 : Ground
 - 5 : Ground
- Denotes available
 Denotes not available

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