

LMTC1020 Series

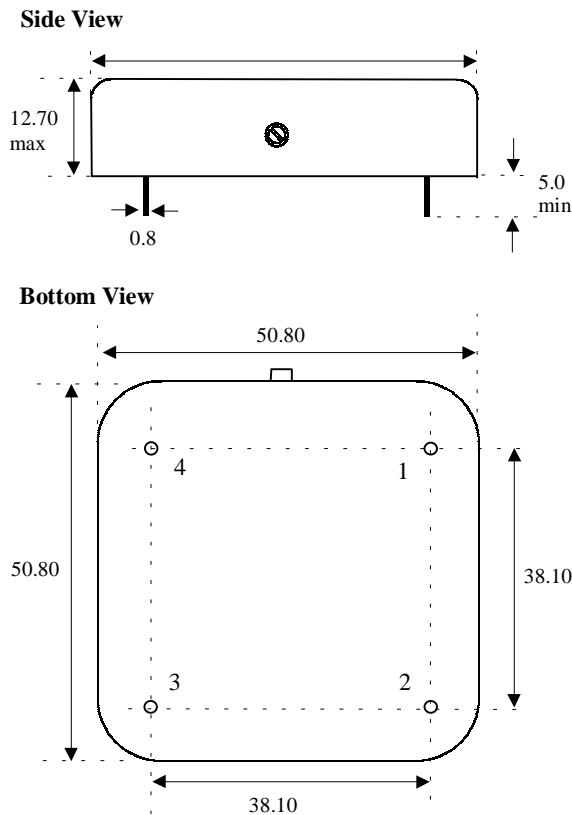
Temperature Compensated Crystal Oscillator

FREQUENCY CHARACTERISTICS	
Nominal Frequency	1 MHz to 120 MHz (HCMOS/TTL) 3 MHz to 33 MHz (Sine)
Frequency at room temperature	±1.0 PPM at 25° C ±2° C
Operating temperature stability	See table below (Stability referring 25°C)
Supply voltage stability	±0.1 PPM/ Volt
Frequency adjustment	Internal Trimmer
Long term aging rate	±1 PPM/year max.

POWER SUPPLY	
Voltage	+10 to 15 V DC (±5%)
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 ±0.5 PPM	Y ±1.0 PPM	Z ±1.5 PPM	P ±2.0 PPM
A	0 to +50° C	Available	Available	Available	Available
B	0 to +60° C	Available	Available	Available	Available
F	0 to +70° C	Available	Available	Available	Available
D	-10 to +60° C	Available	Available	Available	Available
E	-10 to +70° C	Available	Available	Available	Available
C	-20 to +70° C	Available	Available	Available	Available
G	-30 to +80° C	Available	Available	Available	Available
H	-30 to +85° C	Available	Available	Available	Available

Pin connection

Denotes available
 Denotes not available

1 : DC Input
 2 : Ground
 3 : No Connection
 4 : Output

Units in mm