

LMOC2250 Series

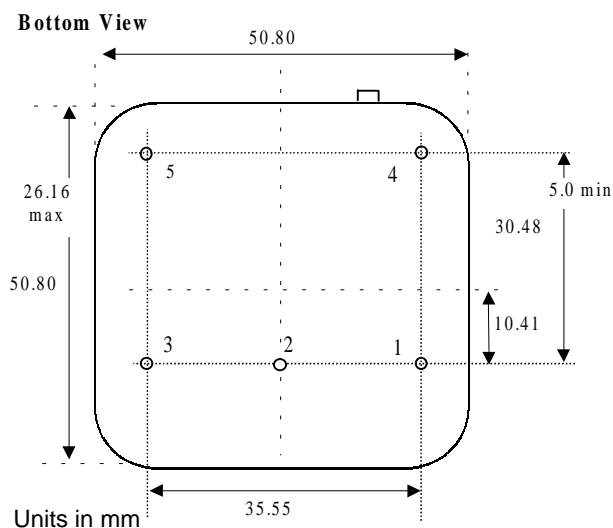
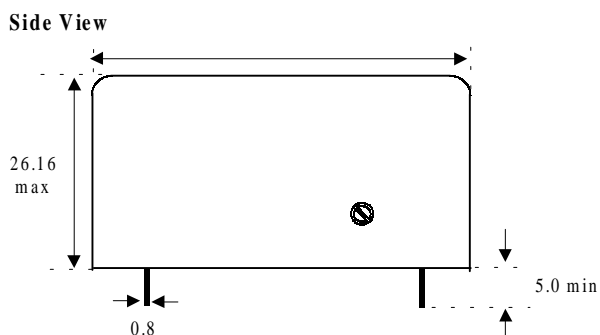
Oven Controlled Crystal Oscillator

FREQUENCY CHARACTERISTICS	
Nominal Frequency	0.5 MHz to 100 MHz (HCMOS/TTL)
Frequency at room temperature	± 0.1 PPM at $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
Operating temperature stability	$\pm 5 \times 10^{-8}$ and $\pm 1 \times 10^{-7}$
Operating temperature range	0 to 65°C
Supply voltage stability	$< 1 \times 10^{-8}$ per 5%
Frequency adjustment	Internal Trimmer
Long term aging rate	$\pm 1 \times 10^{-8}$ /day after 30 days *
	$\pm 5 \times 10^{-9}$ /day after 30 days *
<i>* for better stability please contact us.</i>	
Warm up time	$\pm 4 \times 10^{-7}$ /within 10 minutes @ 25°C

POWER SUPPLY	
Voltage	+5 V DC ($\pm 5\%$)
Power consumption	4 watts max. at turn on. 2.5 watts max. at 25°C

OSCILLATOR OUTPUT		CODE
Output	HCMOS	H
	TTL	T
Rise/Fall times for HCMOS/TTL	10 nS max.	
Duty cycle for HCMOS/TTL	40 to 60%	

OUTLINE AND PIN CONFIGURATION



PHASE NOISE (10 MHz Sine Output)	
1 Hz offset	-60 dBc/Hz
10 Hz offset	-90 dBc/Hz
100 Hz offset	-120 dBc/Hz
1 KHz offset	-130 dBc/Hz
10 KHz offset	-135 dBc/Hz

Pin connection

- 1 : Ground
- 2 : Output
- 3 : DC Input
- 4 : Ground
- 5 : Ground

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