

LMOC 2050 Series

Oven Controlled Crystal Oscillator

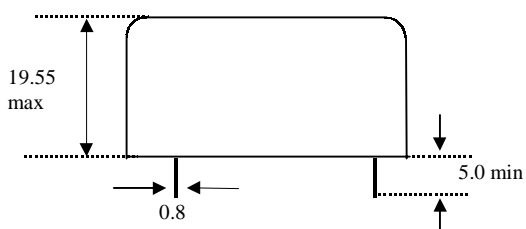
FREQUENCY CHARACTERISTICS	
Nominal Frequency	0.5 MHz to 100 MHz (HCMOS/TTL)
Frequency at room temperature	± 0.1 PPM at 25° C $\pm 2^\circ$ C
Operating temperature stability	$\pm 1 \times 10^{-7}$
Operating temperature range	0 to 60° C
Supply voltage stability	$< 1 \times 10^{-8}$ per 5%
Frequency adjustment	Option 1 : Control voltage trim Option 2 : External 3pin 10K variable resistor
Long term aging rate	$\pm 1 \times 10^{-8}$ /day after 30 days *
<i>* for better stability please contact us.</i>	$\pm 5 \times 10^{-9}$ /day after 30 days *
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

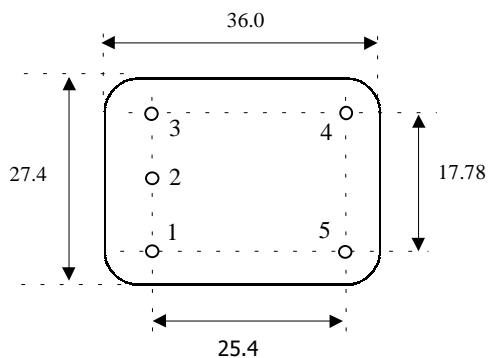
OSCILLATOR OUTPUT	CODE	
Output	HCMOS	H
	TTL	T
Rise/Fall times for HCMOS/TTL	10 nS max.	
Duty cycle for HCMOS/TTL	40 to 60%	

OUTLINE AND PIN CONFIGURATION

Side View



Bottom View



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

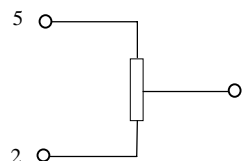
Option : 1

- 1 : Control Voltage
- 2 : No Connection
- 3 : DC Input
- 4 : Output
- 5 : Ground

Option : 2

- 1 : 10K Wiper end
- 2 : 10K one end
- 3 : DC Input
- 4 : Output
- 5 : Ground, 10K other end

10 K Variable Resistor



Units in mm

General Electronic Devices

320 So. Pacific St. San Marcos, CA 92069

E-mail : info@gedlm.com ♦ www.gedlm.com

Tel: (760) 591-4170 (760) 591-4095 Fax: (760) 591-4164