

MOBH and MOBZ Series / 1" Square, 14 pin DIP Compatible OCXO



- Oven Controlled Oscillator
- 1.0 MHz to 150.0 MHz Available
- SC Crystal Option
- -40°C to 85° Available
- ±10ppb to ±500ppb



PART NUMBERING GUIDE:

MOB 5 H S 100 B – Frequency

Supply Voltage
5 = 5 Volt
12 = 12 Volt

Output Type
H = HCMOS
Z = Sinewave

Crystal Cut
Blank = AT Cut
S = SC Cut

Operating Temperature
A = 0°C to 50°C
B = -10°C to 60°C
C = -20°C to 70°C
D = -30°C to 70°C
E = -30°C to 80°C
F = -40°C to 85°C

Frequency Stability
010 = ±10ppb
050 = ±50ppb
100 = ±100ppb
500 = ±500ppb

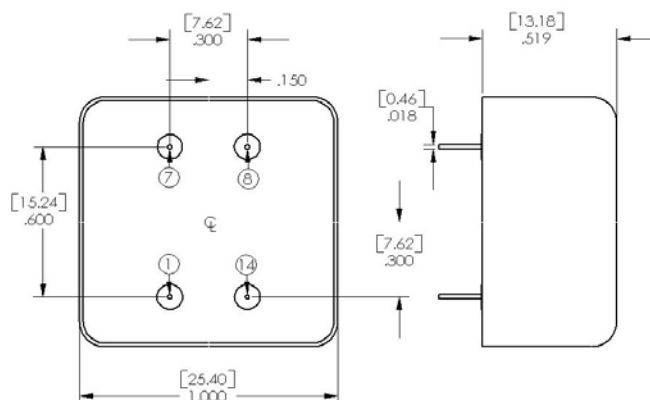
ELECTRICAL SPECIFICATIONS:

Frequency Range		1.0 MHz to 150.0MHz	
Frequency Stability		±10ppb to ±500ppb	
Operating Temperature		-40°C to 85°C max*	
* All stabilities not available, please consult MMD for availability.			
Storage Temperature		-40°C to 95°C	
Output	Sinewave	±3 dBm	50Ω
	HCMOS	10% Vdd max 90% Vdd min	30pF
Supply Voltage (Vdd)		5.0V	12.0V
Supply Current	typ	300mA	120mA
	max	500mA	250mA
Warm-up Time		4min. @ 25°C	
Input Impedance		100K Ohms typical	
Crystal		AT or SC Cut options	
Phase Noise @ 10MHZ		SC	AT
10 Hz Offset		-105dBc	-91dBc
100 Hz Offset		-125dBc	-120dBc
1000 Hz Offset		-140dBc	-135dBc
10K Hz Offset		-145dBc	-138dBc
Voltage Control 0 to VCC		±3ppm typ.	±10ppm typ.
Aging (after 30 days)		±0.1ppm/yr.	±1.0ppm/yr.

MECHANICAL DETAILS:

Pin Connections

Pin 1 = Vc
Pin 7 = Ground
Pin 8 = Output
Pin 14 = Supply Voltage



MMD Components, 30400 Esperanza, Rancho Santa Margarita, CA, 92688
Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomponents.com
Sales@mmdcomp.com