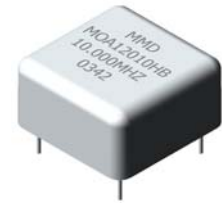


MOA Series / 1" Square, 4 pin OCXO



- **Oven Controlled Oscillator**
- **1.0 MHz to 50.0 MHz Available**
- **SC Crystal Option**
- **-40°C to 85° Available**
- **±10ppb to ±500ppb**



PART NUMBERING GUIDE:

MOA 5 S 100 H B - Frequency

Supply Voltage
5 = 5 Volt
12 = 12 Volt

Crystal Cut
Blank = AT Cut
S = SC Cut

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

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

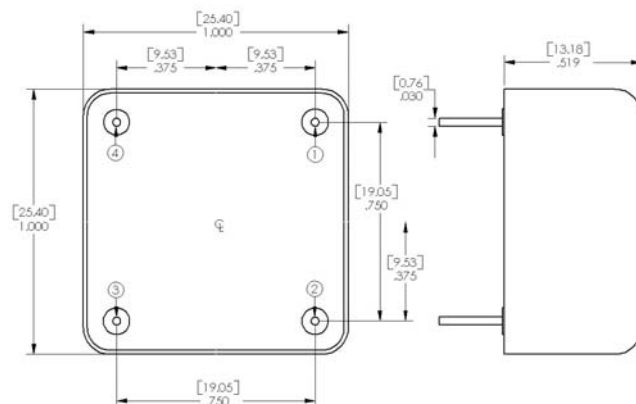
Output Type
H = HCMOS
Z = Sinewave

ELECTRICAL SPECIFICATIONS:

Frequency Range	1.0 MHz to 50.0MHz	
Frequency Stability	±10ppb to ±500ppb	
Operating Temperature	-40°C to 85°C max*	
* all stabilities not available		
Storage Temperature	-40°C to 95°C	
Output Type	HCMOS or Sinewave	
Supply Voltage	5.0V or 12.0V	
Supply Current	5.0V	12.0V
Typical	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 = Output
Pin 2 = Ground
Pin 3 = Vc
Pin 4 = 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