

MOCH and MOCZ Series / 1.5" Square, 4 pin OCXO



- Oven Controlled Oscillator
- 500 KHz to 150.0 MHz Available
- SC Crystal
- -40°C to 85° Available
- ±5ppb to ±500ppb



PART NUMBERING GUIDE:

MOC H 2 5 S 100 B - Frequency

Output Type
H = HCMOS
Z = Sinewave

Package Height
1 = 12.7mm
2 = 25.4mm

Supply Voltage
5 = 5 Volt
12 = 12 Volt

Crystal Cut
Blank = AT Cut
S = SC Cut

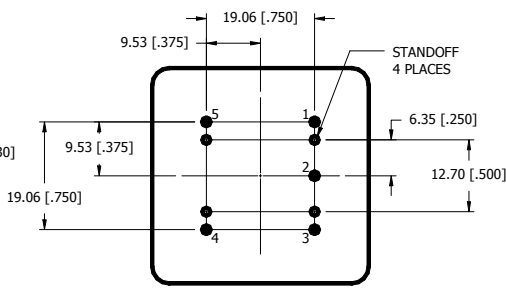
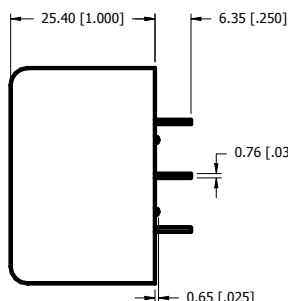
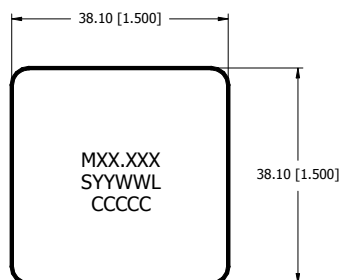
Operating Temperature
A = 0°C to 50°C
B = -10°C to 60°C
C = -20°C to 70°C
D = -30°C to 70°C
E = -30°C to 80°C
F = -40°C to 85°C

Frequency Stability
005 = ±5ppb
010 = ±10ppb
050 = ±50ppb
100 = ±100ppb

ELECTRICAL SPECIFICATIONS:

Frequency Range		500.0KHz to150.0MHz	
Frequency Stability		±5ppb 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	85mA	70mA
	max	550mA	335mA
Warm-up Time		8min. @ 25°C	
Vc Input Impedance		100K Ohms typical	
Crystal		AT or SC Cut options	
Phase Noise @ 30MHZ		SC	AT
100 Hz Offset		-125dBc	Call MMD
1000 Hz Offset		-140dBc	Call MMD
10K Hz Offset		-145dBc	Call MMD
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	CASE GROUND
PIN 3	VOLTAGE CONTROL
PIN 4	N/C
PIN 5	SUPPLY VOLTAGE

DIMENSION IN BRACKETS ARE IN INCHES
EXTERNAL BYPASS CAPACITOR IS RECOMMENDED
DEVICE SHALL BE MARKED PER MMD DRAWING DO-00336

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