MOEH & MOEZ Series – Euro Package 5 Pin OCXO



- O Oven Controlled Oscillator
- O 1.0 MHz to 150.0 MHz Available
- O SC Crystal Option
- O RoHS Option Available
- O ±2ppb to ±500ppb



Frequency Range		1.000MHZ to 150.000MHZ			
Stability					
Frequency at +25°C at time of shipment		±10 ppb at +25°C with V _{nom} on Pin 1			
Frequency vs. Ambient		See Part Number Guide for Options			
Frequency vs. Voltage		Less than ±5 ppb for 5% change in Supply Voltage			
Frequency vs. Load		Less than ±5 ppb for 5% change in Load			
Frequency	AT Cut	±1.0 ppm per year after			
vs. Time	SC Cut	±0.1 ppm per year after 30 days			
Warm Up		3 min at $\pm 25^{\circ}$ C to ± 1.0 ppm of final frequency (1 hr reading)			
Supply and	Reference Voltages				
Supply Volta	ge (V _{dd})	+3.30 VDC ±5%	+5.00 VDC ±5%	+12.00 VDC ±5%	
Supply	Steady State	540 mA	360 mA	150 mA	
Current	Warm Up	1000 mA	720 mA	650 mA	
Reference Voltage (Output)		+3.00 VDC ±5%	+4.00 VDC ±5%	4.00 VDC ±5%	
Output					
HCMOS					
Logic "0" (r	max)	+0.33 VDC	+0.50 VDC	+0.50 VDC	
Logic "1" (r	min)	+2.97 VDC	+4.50 VDC	+4.50 VDC	
Symmetry (50% of Waveform)		See Part Number Guide for Options			
Load		15pF			
SINEWAVE					
Amplitude		See Part Number Guide for Options			
Spurious (Harmonics)		-20 dBc			
Spurious (Non Harmonics)		-80 dBc			
Load		50Ω			
Electronic I	Frequency Control				
Control Volta	age Range	0.00 to +3.30 VDC	0.00 to + 5.00 VDC	0.00 to + 5.00 VDC	
V _{nom} (Pin 1)		+1.65 VDC	+2.50 VDC	+2.50 VDC	
Total	AT Cut	±1.0 ppm typ			
Frequency Change	SC Cut	±0.6 ppm min			
Slope		Positive			
Input Impedance		100kΩ typ			
			SC Cut Crystal	AT Cut Crystal	
		10 Hz	110 dBC	-100 dBc	
Phas	se Noise at 10.000MHZ	100 Hz	-130 dBc	-110 dBc	
		1 kHz	-140 dBc	-135 dBc	
		10 kHz	-155 dBc	-140 dBc	
	GEMENT SYST				



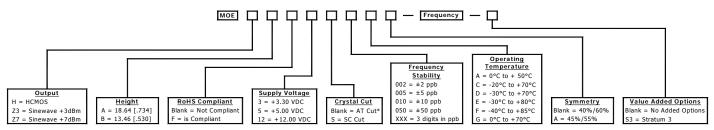
MMD Monitor/Quartztek

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



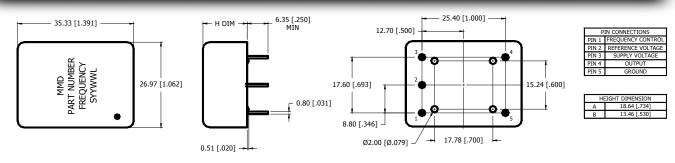
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Part Number Guide



Please Consult with MMD Sales Department for any other Parameters or Options *AT Cut Crystal cannot be used in all Temperature/Stability options

Mechanical Details



DIMENSION IN BRACKETS ARE IN INCHES EXTERNAL BYPASS CAPACITOR IS RECOMMENDED PIN NUMBERS ARE FOR REFERENCE ONLY

Environmental/Mechanical Specification

Shock	MIL-STD-883, Meth 2002, Cond B
Solderability	MIL-STD-883, Meth 2003
Vibration	MIL-STD-883, Meth 2007, Cond A
Gross Leak Test	MIL-STD-883, Meth 1014, Cond C
Fine Leak Test	MIL-STD-883, Meth 1014, Cond A
MSL	Level 1 per IPC/JEDEC'S J-STD-20

Marking Detail

Line 1 = MMD					
Line 2 = MMD Part Number (per sales order)					
Line 3 = Frequency Output (per sales order)					
Line 4 = SYYWWL					
S	=	Internal Code			
YY	=	YY = Year, 2 numerical digits that represents the last 2 digits of the year of manufacture.			
WW = Week, 2 numerical digits that represents the week of the year that the OCXO was manufactured.		represents the week of the year that			
L	=	Denotes RoHS Compliant			
Pin 1 Designator					



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