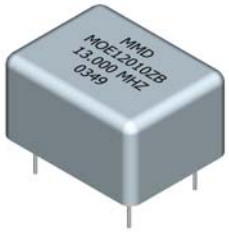
MOEH and MOEZ Series / Euro Package, 5 pin OCXO

- **Oven Controlled Oscillator**
- **1.0 MHz to150.0 MHz Available**
- **SC Crystal Option**
- **-40°C to 85° Available**
- **High Stability**



PART NUMBERING GUIDE:

MOE H 12 S 100 B– Frequency

Output Type
H = HCMOS
Z = Sinewave

Supply Voltage
3 = 3.3 Volt
5 = 5 Volt
12 = 12 Volt

Crystal Cut
Blank = AT Cut
S = SC Cut

Frequency Stability
002 = ±2ppb
005 = ±5ppb
010 = ±10ppb
050 = ±50ppb
100 = ±100ppb

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

ELECTRICAL SPECIFICATIONS:

Frequency Range		1.0 MHz to 150.0MHz	
Frequency Stability		±2ppb to ±100ppb	
Operating Temperature		-40°C to 85°C max*	
* All stabilities not available, please consult MMD for availablity.			
Storage Temperature		-40°C to 95°C	
Output	Sinewave	±3 dBm	50Ω
	HCMOS	10% Vdd max 90% Vdd min	30pF

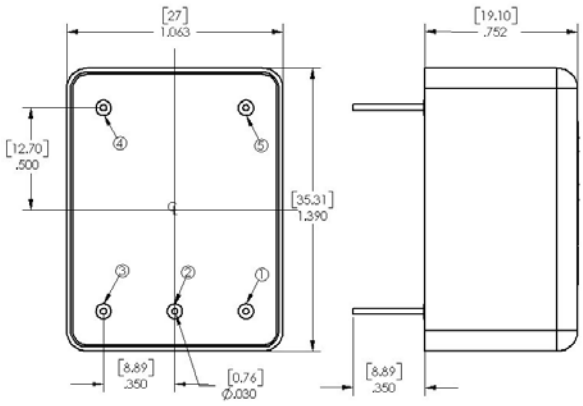
Supply Voltage (Vdd)		3.3V	5.0V	12.0V
Supply Current	typ	540mA	360mA	150mA
	max	1000mA	720mA	650mA

Warm-up Time	5min. @ 25°C	
Input Impedance	100K Ohms typical	
Crystal	AT or SC Cut options	

Phase Noise @ 10MHZ**	SC	AT
10 Hz Offset	-110dBc	-101dBc
100 Hz Offset	-130dBc	-111dBc
1000 Hz Offset	-140dBc	-134dBc
10K Hz Offset	-155dBc	-140dBc
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 2 = Reference Voltage
Pin 3 = Supply Voltage
Pin 4 = Output
Pin 5 = Ground



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