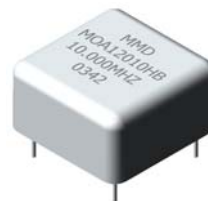


MOAH and MOAZ Series / 1" Square, 5 Pin OCXO



- 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:

MOA H 5 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

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

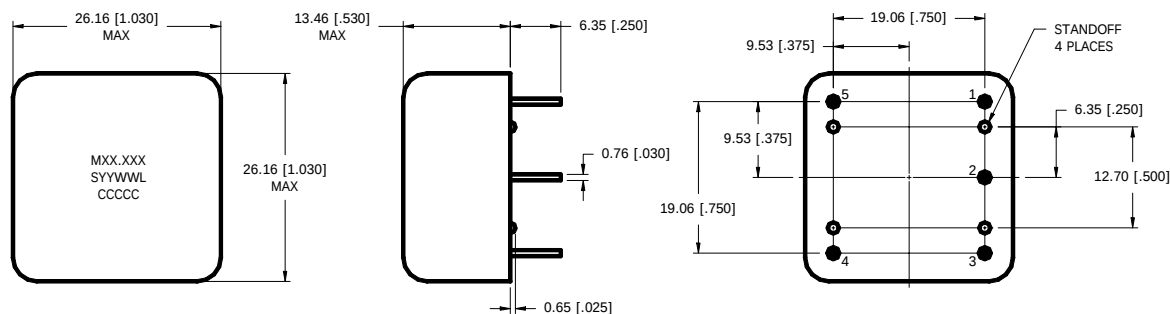
Frequency Stability

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		±3dBm	50Ω
	HCMOS		10% Vdd max 90% Vdd min	30pF
Supply Voltage (Vdd)		3.3V	5.0V	12.0V
Supply Current	typ	450mA	300mA	120mA
	max	850mA	500mA	250mA
Warm-up Time			4min. @ 25°C	
Vc Input Impedance			100K Ohms typical	
Crystal			AT or SC Cut options	
Phase Noise		SC		AT
Offset		10 MHZ	100 MHZ	10 MHZ
10 Hz		-105dBc	-90dBc	-91dBc
100 Hz		-125dBc	-120dBc	-120dBc
1000 Hz		-140dBc	-145dBc	-135dBc
10K Hz		-145dBc	-150dBc	-138dBc
Volt. 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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