

# 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:

## ELECTRICAL SPECIFICATIONS:

### 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

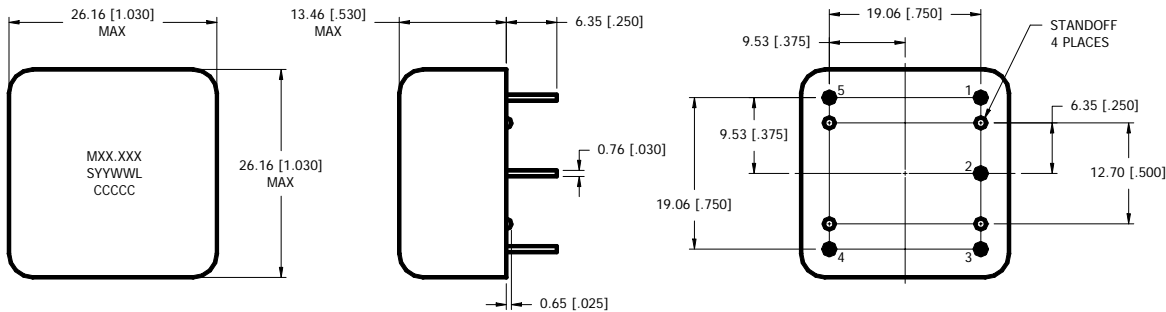
**Crystal Cut**  
Blank = AT Cut  
S = SC Cut

**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

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 Hz		-105dBc	-90dBc
100 Hz		-125dBc	-120dBc
1000 Hz		-140dBc	-145dBc
10K Hz		-145dBc	-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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