

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

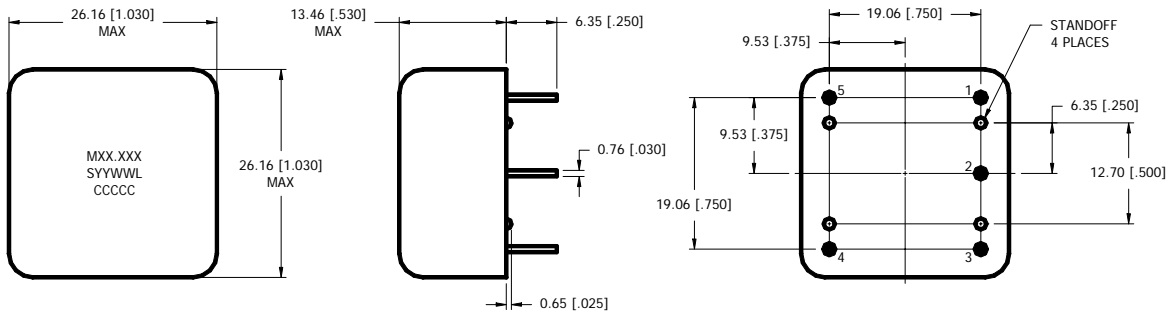
Crystal Cut
 Blank = AT Cut
 S = SC Cut

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 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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