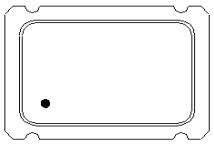
XO3001-1

125 MHz Crystal Oscillator

- ***Crystal Oscillator***
- ***Surface Mount Seam Weld Package***
- ***Low Vibration Sensitivity***
- ***Good Frequency Stability over Temperature***
- ***Excellent Reliability***
- ***Complies with Directive 2002/95/EC (RoHS)***

RoHS Compliant



SM7050-4
7x5 mm Case

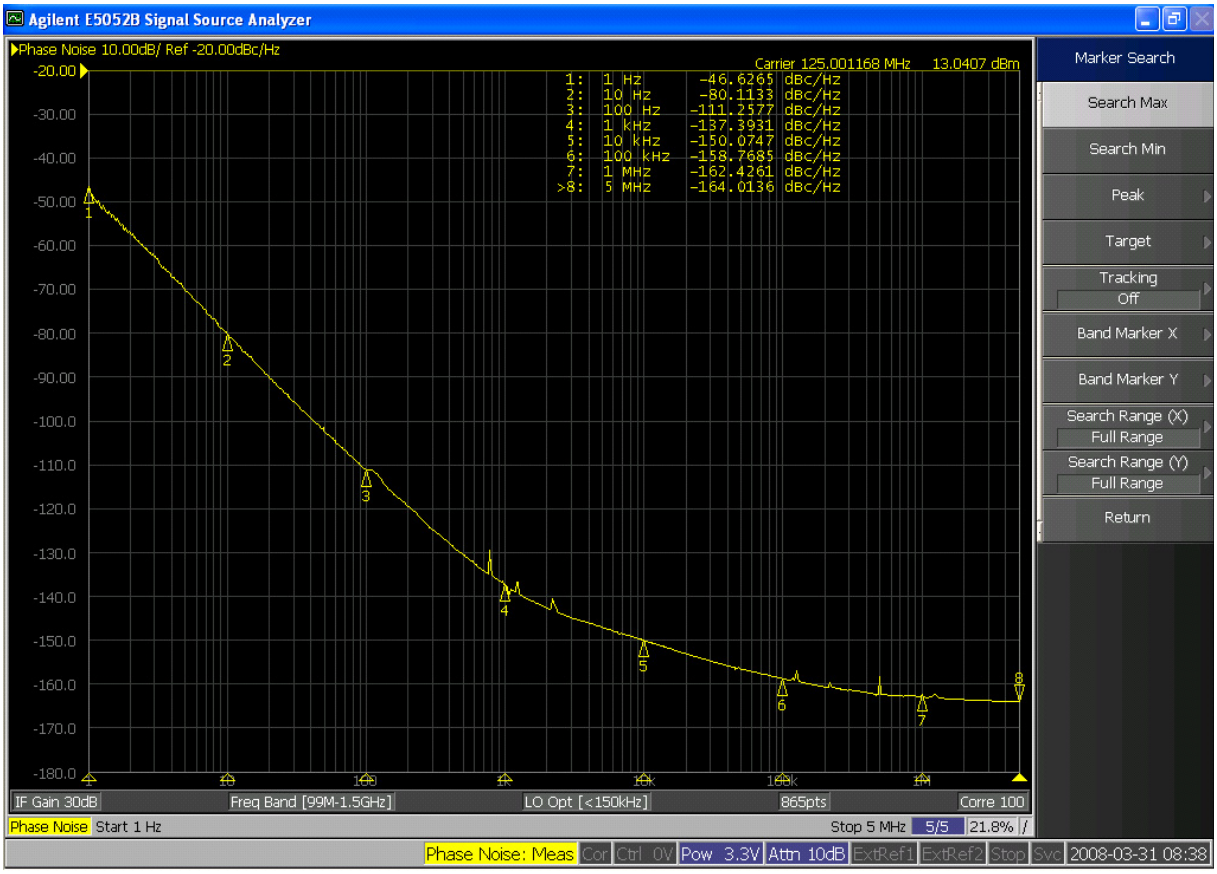
Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Frequency	fo			125.000000		MHz
Storage Temperature Range			-55		+125	°C
Operating Temperature Range			-40		+85	°C
Power Supply Voltage	Vcc		2.97	3.30	3.63	V
Load			10 KΩ ||15 pF (HCMOS)			
"0" Level					0.33	V
"1" Level			2.97			V
Power Supply Current	Icc				35	mA
Frequency Accuracy, -20 to +70 °C					±50	ppm
Frequency Accuracy, -40 to +85 °C		1			±80	ppm
Aging at 25 °C					±1	ppm/yr
Duty Cycle			40% to 60%			
Rise Time (10% to 90% of final RF level in Vp-p)					10	ns
Fall Time (90% to 10% of final RF level in Vp-p)					10	ns
Enable/Disable Function			PIN 1: High or Open, PIN 3: Enable			
			PIN 1: Low, PIN 3: Disable			
Stanard Shipping Quantity on 180 mm (7") Reel				1000		units
Lid Symbolization (in addition to Lot and/or Date Codes)	3001-1 , YWWS					

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

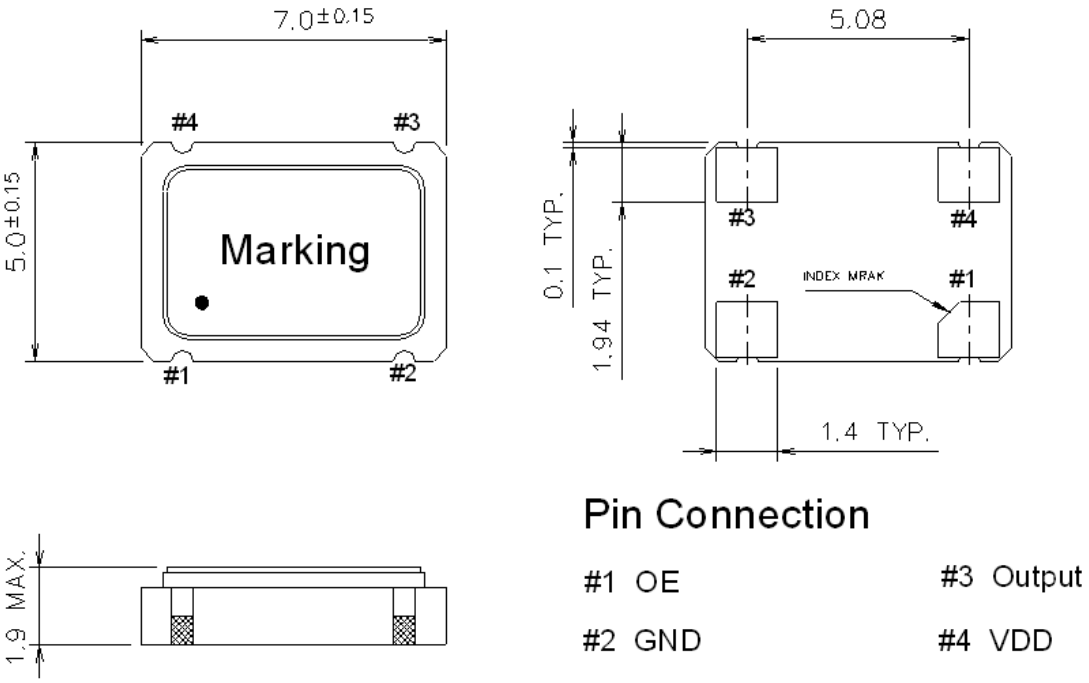
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.



Typical Phase Noise Result

4-Terminal Surface-Mount Seam Weld Case

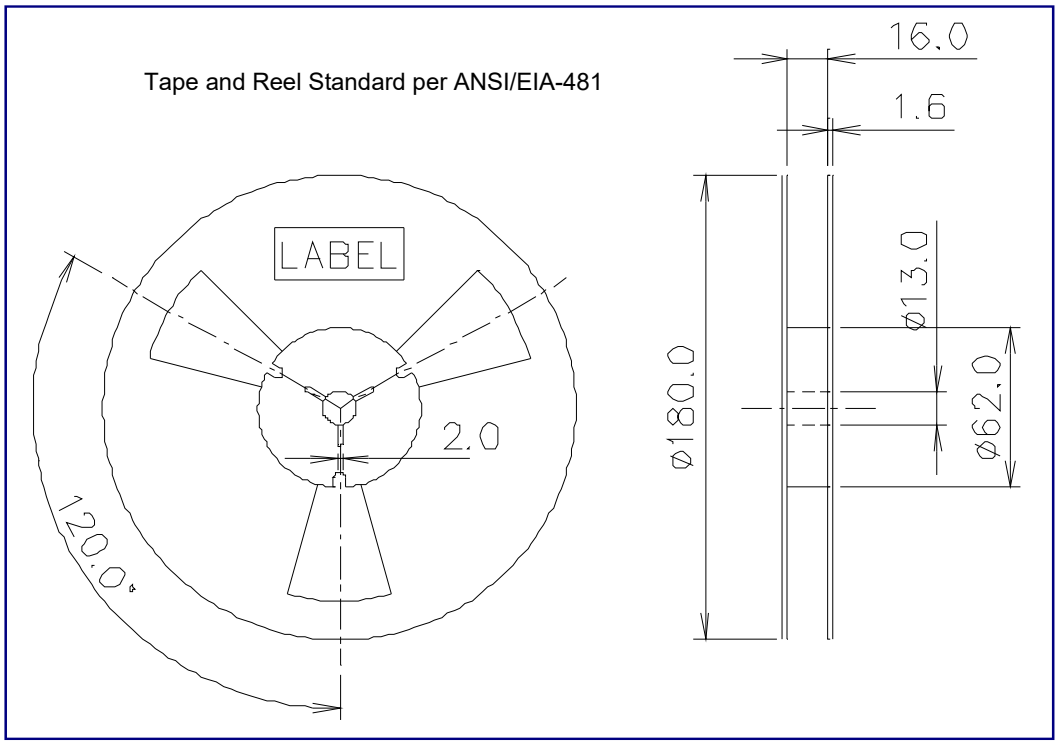
7.0 x 5.0 mm Nominal Footprint



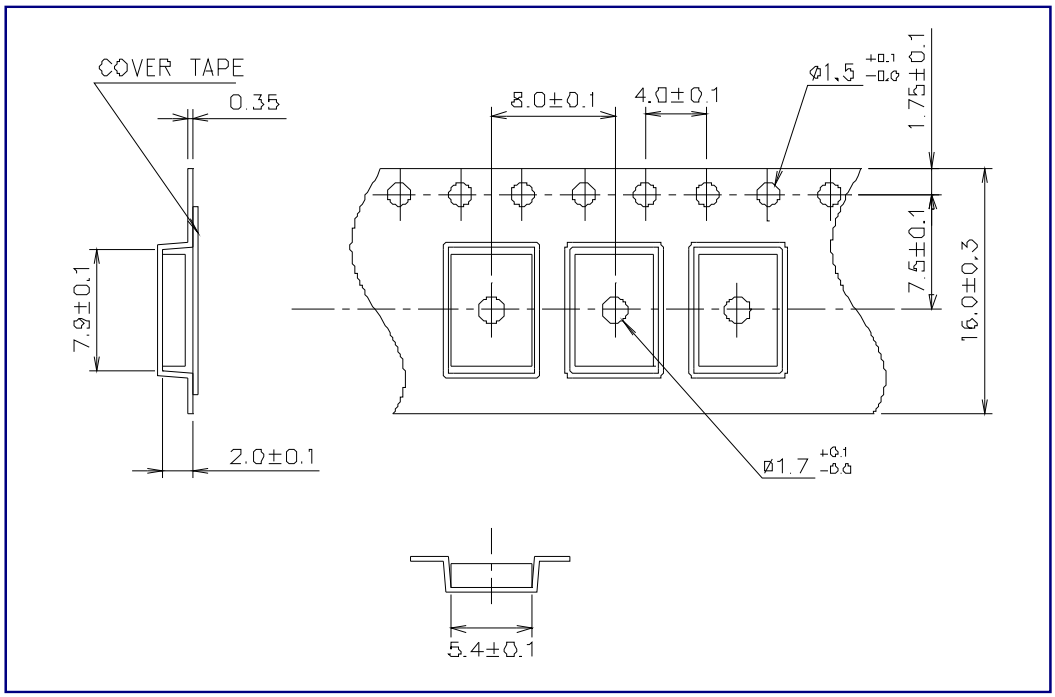
Pin Connection

#1 OE	#3 Output
#2 GND	#4 VDD

Reel Dimensions in mm (7” nominal diameter)



Tape Dimensions in mm



Recommended Reflow Profile

1. Preheating shall be fixed at 150~180ºC for 60~90 seconds.
2. Ascending time to preheating temperature 150ºC shall be 30 seconds min.
3. Heating shall be fixed at 220ºC for 50~80 seconds and at 260ºC +0/-5ºC peak (10 seconds).
4. Time: 5 times maximum.