

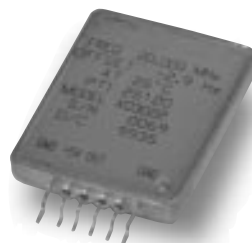
XO3022 Series

1.25 x 1 inch, 5.0 Volt, Sinewave, TCXO



Applications

Avionics
Portable Communications
Navigation
Test Equipment
VCXO Version Available



Features

Low Power
High Stability
Wide Frequency Range
High Shock

Typical Specifications

Model	Frequency (MHz)	Temperature Range (°C)	Temperature Stability	Aging First Year	Output	Supply Voltage
XO3022	20	-30 to +70	±0.75 ppm	±1.0 ppm max.	Sinewave	5 V ±0.25 V
Options	10 to 100	See Table		Freq. dependent	-3 to +3 dBm into 50 Ω HCMOS	3.3 V to 15 V

Additional Specifications

Aging over ten years ±3.0 ppm max
Current Sinewave As low as 2 mA
Frequency adjust Method External 10 K pot
Range ±5 ppm

Output Signal Type

Level Sine wave
Load 0.5 V pk-pk
1 k Ω

Phase Noise @ 20 MHz

10 Hz -85 dBc/Hz
100 Hz -115 dBc/Hz
1 kHz -135 dBc/Hz
10 kHz -145 dBc/Hz

Optional Temperature Ranges and Frequency Stabilities

Range (°C)	±1	±0.75	±0.50	±0.25
+15 to +30	X	X	X	X
0 to +50	X	X	X	X
0 to +70	X	X	X	
-20 to +70	X	X	X	
-40 to +75	X	X		
-55 to +85	X			

This TCXO can be produced to these specifications, with extended temperature range and tighter stability being cost drivers.

Environmental

Vibration

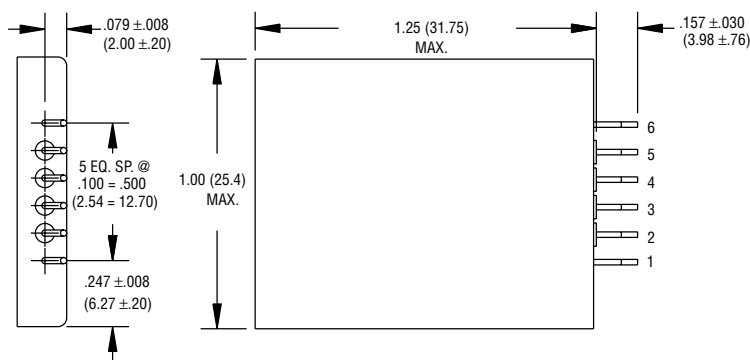
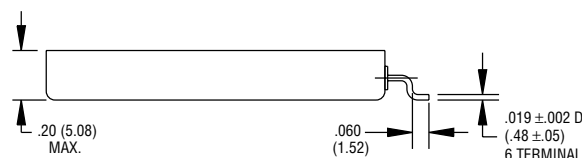
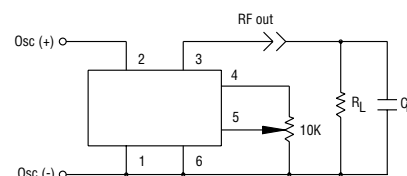
0.4 g²/Hz, 100-2000 Hz

Shock

50 g 11 ms 1/2 sine

Very High Shock Version

Available to 50 kg, 8ms 1/2 sine



Dimensions are in inches (mm)

PIN CONNECTIONS

- GROUND (TO EXTERNAL 10K POT.)
- Supply (+)
- RF OUTPUT
- Vref
- FREQ. ADJ. (WIPER ARM OF EXT. 10K POT.)
- CASE GROUND AND SUPPLY RETURN

Pin numbers shown for ref. only.
Numbers are not marked on unit.

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Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

Revision: 12-11-06

MtronPTI Lead Free Solder Profile

