XO3070 Series

1x1 inch, 5.0 Volt, TTL/HCMOS/Sinewave, TCXO

- **All output types**
- **Low power, high stability**

Model XO3070	Frequency (MHz)	Temperature Range (°C)	Temperature Stability	Aging First Year	Output	Supply Voltage
X03070	20	-30 to +90	±1.0 ppm	±1.0 ppm	HCMOS	5 V ±0.25 V
X03071	20	-30 to +90	±1.0 ppm	±1.0 ppm	Sinewave	5 V ±0.25 V
Options	10 to 100	See Table		Frequency Dependent	Sine, TTL, ACMOS	5 V to 15 V

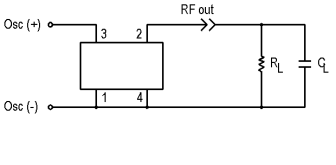
Additional Specifications

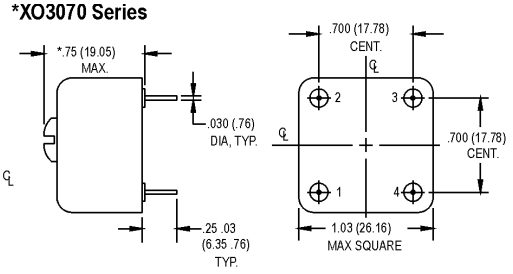
Aging over ten years	±3.0 ppm max
Current	
Sine	As low as 2 mA
HCMOS	12 mA
Frequency Adjust	Internal *(XO3070)
Method	External 0 to 5 V or potentiometer **(XO3071)
Range	10 Years
Output	
Level	HCMOS
Load	2 Gates
Sine Wave Option	
Level	0 to +3 dBm (50 Ω)
Load	1 k Ω//10pF
Environmental	
Vibration	10 g pk, 10-2000 Hz
Shock	50 g 11 mS 1/2 Sine
Phase Noise @ 20 MHz	
10 Hz	-85 dBc/Hz
100 kHz	-120 dBc/Hz
1 kHz	-140 dBc/Hz
10 kHz	-150 dBc/Hz

Optional Temperature Range (°C)	Frequency/Temperature Stability (ppm) ±1	±0.75	±0.50	±0.25
+15 to +30	✓	✓	✓	✓
0 to +50	✓	✓	✓	✓
0 to +70	✓	✓	✓	
-20 to +70	✓	✓	✓	
-40 to +75	✓	✓		
-55 to +85	✓			

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

***XO3070 Series**



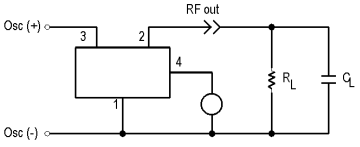


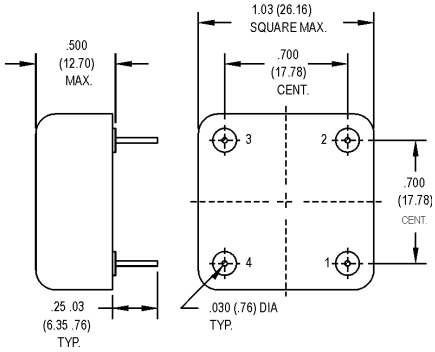
Dimensions are in inches (mm)

Pin connections
1. CASE GROUND & SUPPLY RETURN
2. RF OUTPUT
3. SUPPLY (+)
4. CASE GROUND OR FREQ. ADJUST

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

****XO3071 Series**





*** Internal Adjust**
****External Adjust**

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.