

XO3050 Series

1.5x1.5 in., 5.0 & 10.0 Volt, TTL/HCMOS/Sinewave, TCXO



- VCXO version available
- Tight stability and low phase noise

Model XO3050	Frequency (MHz)	Temperature Range (°C)	Temperature Stability	Aging First Year	Output	Supply Voltage
XO3050-006	10	-30 to +70	±0.75 ppm	±1.0 ppm	HCMOS	5 V ±0.25 V
XO3051-006	10	-30 to +70	±0.75 ppm	±1.0 ppm	Sine	10 V ±0.5 V
Options	8 - 160	See Table		Frequency Dependent	TTL	5 V to 15 V

Additional Specifications

Aging over ten years	±3.0 ppm max
Current	
Sinewave	As low as 2 mA
HCMOS	As low as 4 mA
Frequency Adjust	Internal or electrical to compensate for >10 years of aging

Sinewave

Level	-3 dBm to +10 dBm (50 Ω)
Load	Up to 1 k Ω

HC MOS

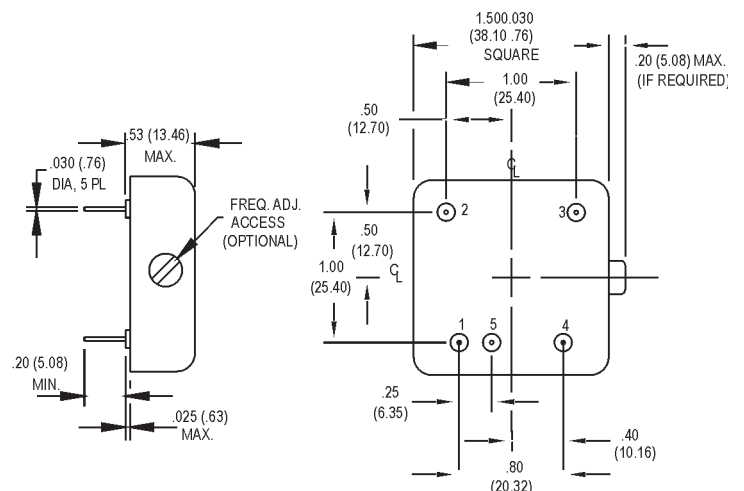
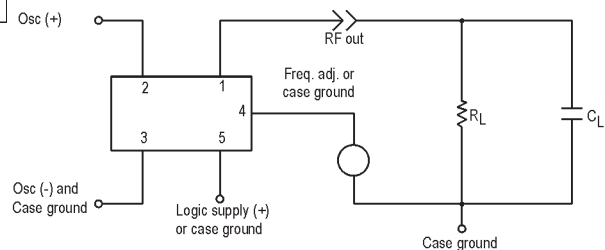
Duty Cycle	40/60
Load	2 Gates

Phase Noise @ 10 MHz

10 Hz	-90 dBc/Hz
100 kHz	-125 dBc/Hz
1 kHz	-140 dBc/Hz
10 kHz	-155 dBc/Hz

Optional Temperature Frequency/Temperature Stability (ppm)				
Range (°C)	±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.



Dimensions are in inches (mm)

Pin Connections
1. RF OUTPUT
2. SUPPLY (+)
3. SUPPLY RETURN (-) AND CASE GROUND
4. FREQUENCY ADJUST OR CASE GROUND (OPTIONAL)
5. LOGIC SUPPLY (+) OR CASE GROUND (OPTIONAL)

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