XO3090 Series

0.8x0.8 inch, 5.0 Volt, HCMOS/Sinewave, TCXO

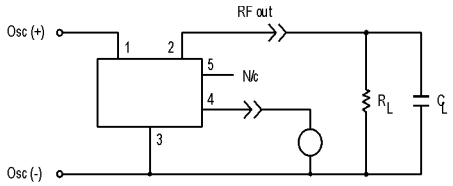
- **Wide frequency range**
- **Low power, high stability**

Model XO3090	Frequency (MHz)	Temperature Range (°C)	Temperature Stability	Aging First Year	Output	Supply Voltage
XO3091	5	-46 to +85	±1.0 ppm	±1.0 ppm	HCMOS	5 V ±0.25 V
Options	5 to 100	See Table		Frequency Dependent	Sine	+3.3 V or +5 V

Additonal Specifications	
Aging over ten years	±3.0 ppm max
Current	<10mA
Frequency Adjust	
Method	External 0 to 5 V/potentiometer
Range	>±3 ppm (10 years)
Ouput	
Level	HCMOS
Load	2 Gates
Environmental	
Vibration	10 g pk, 10-2000 Hz
Shock	50 g 11 mS 1/2 sine
Phase Noise (typical @ 5 MHz)	
10 Hz	-100 dBc/Hz
100 Hz	-125 dBc/Hz
1 kHz	-135 dBc/Hz
10 kHz	-140 dBc/Hz
100 kHz	-145 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.



Dimensions are in inches (mm)

PIN CONNECTIONS	
1.	SUPPLY VOLTAGE
2.	RF OUTPUT
3.	GROUND/CASE
4.	VCXO INPUT
5.	N/C

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