

Temperature Compensated Crystal Oscillator TCXO



CXOH20 Model Through Hole, 5.0V, HCMOS

Applications

- Test Equipment
- RF Sources

Frequency Options

- 10.000 MHz
- 16.000 MHz
- 20.000 MHz
- 25.000 MHz

Features

- High Stability
- Excellent Phase Noise
- AT-Cut Crystal
- Mechanical Trimmer



FREQUENCY STABILITIES	MIN	TYP	MAX	UNITS	CONDITIONS
Frequency Overall Stability	-1.0		+1.0	PPM	-10° to +60°C (reference @25°C)
Frequency vs Input Voltage	-0.3		+0.3	PPM	for ±5.0% change in Vcc
Frequency vs Load	-0.3		+0.3	PPM	
Frequency vs 1 year aging	-1.0		+1.0	PPM	
Frequency adjustment range	±3.0			PPM	mechanical trim

Supply Voltage / Current	MIN	TYP	MAX	UNITS	CONDITIONS
Supply Voltage	+4.5	+5.0	+5.5	VDC	
Supply Current			20	mA	

HCMOS OUTPUT	MIN	TYP	MAX	UNITS	CONDITIONS
Signal Level (Voh)	4.5			VDC	
Signal Level (Vol)			0.5	VDC	
Duty Cycle	40		60	%	@ Vcc/2
Load		15		pF	

PN: CXOH20-BP-10.000

Rev. D

Page 1 of 3

Temperature Compensated Crystal Oscillator TCXO

CXOH20 Model Through Hole, 5.0V, HCMOS

OUTPUT CHARACTERISTICS	MIN	TYP	MAX	UNITS	CONDITIONS
Phase Noise		-75		dBc/Hz	@ 10Hz Offset
		-105			@ 100Hz Offset
		-125			@ 1KHz Offset
		-135			@ 10KHz Offset
		-140			@ 100KHz Offset
Start-Up Time			10	msec	
Rise Time, Fall Time			5	nsec	

ABSOLUTE MAXIMUM RATING	MIN	TYP	MAX	UNITS	CONDITIONS
Supply Voltage			7	VDC	
Storage Temperature	-45		+90	°C	
Load			50	pF	

ENVIRONMENTAL CONDITIONS	
SHOCK	IEC 68-2-27 (Test Ea) 30G, 10mSec, Half Sine
VIBRATION	IEC 68-2-6 (Test Fc) 0.35mm, 10G, 5-500Hz, 6 cycles/axis
THERMAL SHOCK	IEC 68-2-14 (Test Na) 30 min. in each extreme temperature
HUMIDITY	MIL-STD-202 method 106D

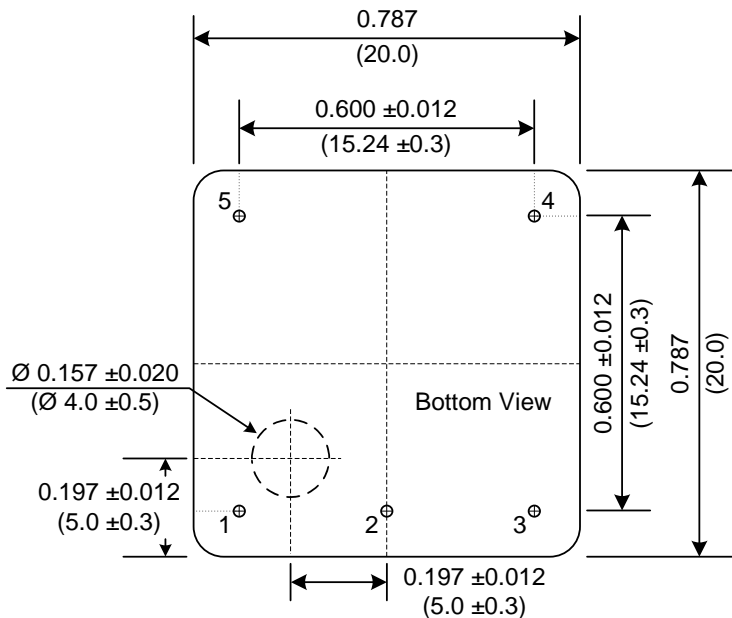
PN:CXOH20-BP-10.000

Rev. D

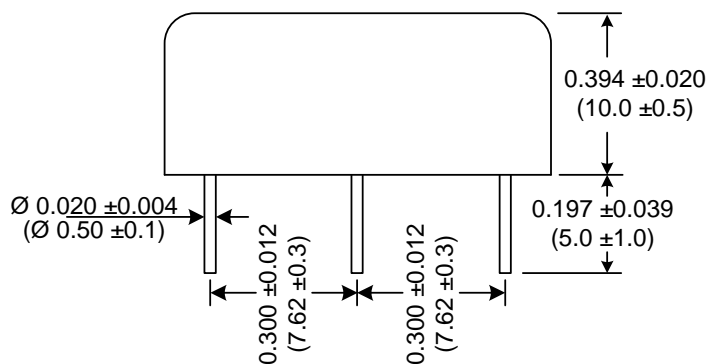
Page 2 of 3

Temperature Compensated Crystal Oscillator TCXO

CXOH20 Model Through Hole, 5.0V, HCMOS



Pin	Function
1	NC
2	RF Output
3	Supply Voltage
4	Case Ground
5	Case Ground



Dimensions inches (mm)
All dimensions are maximum unless otherwise specified

PN: CXOH20-BP-10.000

Rev. D

Page 3 of 3