

CXO-049BZ

CRYSTAL CLOCK OSCILLATOR
TTL WITH TRI-STATE



Features

- 14 Pin Compatible DIP Package
- TTL Direct Drive
- 1.0 to 80.0 MHz Frequency Range
- Tri-State Function

Frequency Range	1.0 to 80.0 MHz
Frequency Stability	± 50 ppm *
Operating Temperature Range	0 to +70 °C
Storage Temperature Range	-55 to +125 °C
Power Supply Voltage	+5.0 \pm 0.5 V
Load Capacitance	TTL10 15 pF
Output Level	VOH: 4.5 V Min.
	VOL: 0.5 V Max.
Duty Ratio	45 to 55 %
Rise and Fall Time	5 nsec. Max.
Start-up Time	1.5 msec. Max.(1.0 to 23.9 MHz)
	10 msec. Max.(24.0 to 80.0 MHz)
Power Supply Current	10mA Max.(1.0 to 9.9 MHz)
	20mA Max.(10.0 to 23.9 MHz)
	30mA Max.(24.0 to 49.9 MHz)
	40mA Max.(50.0 to 80.0 MHz)

* Frequency stability includes frequency tolerance, temperature characteristics, and power supply fluctuation.

Optional ± 25 ppm available (Model CXO-049AZ)



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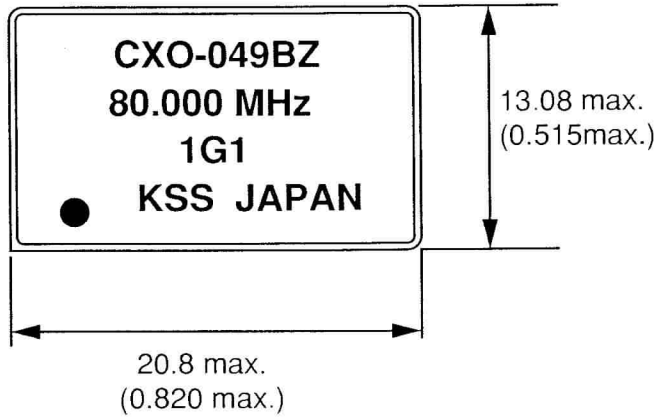
1735 Technology Drive, #790
401 East Louther Street, #207

San Jose, CA 95110
Carlisle, PA 17013

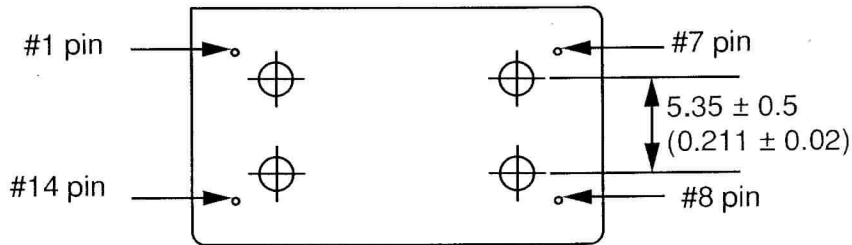
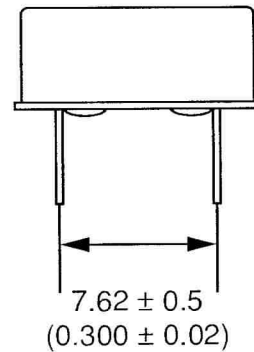
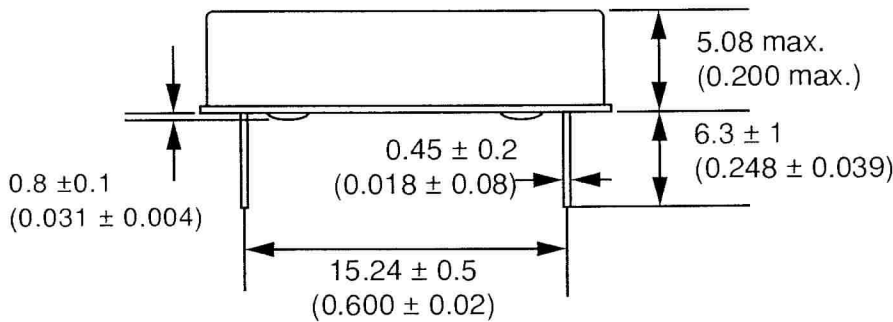
Tel#(408)437-9577
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Fax#(717)243-4343

DIMENSIONS



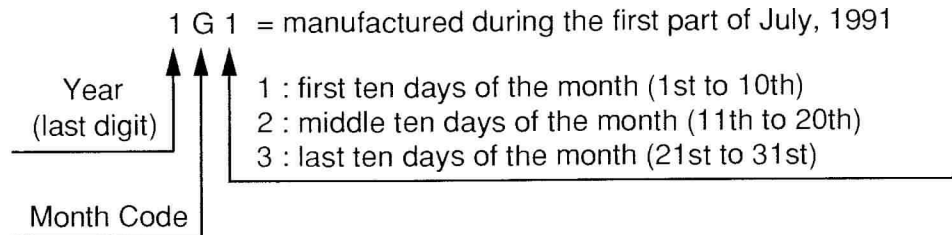
PIN CONNECTIONS	
NO.	CONNECTION
1	TRI-STATE
7	GND
8	OUTPUT
14	VDD



TRI-STATE FUNCTION	
TRI-STATE (#1PIN)	OUTPUT (#8PIN)
OPEN	F-OUT
HIGH	F-OUT
LOW	Z

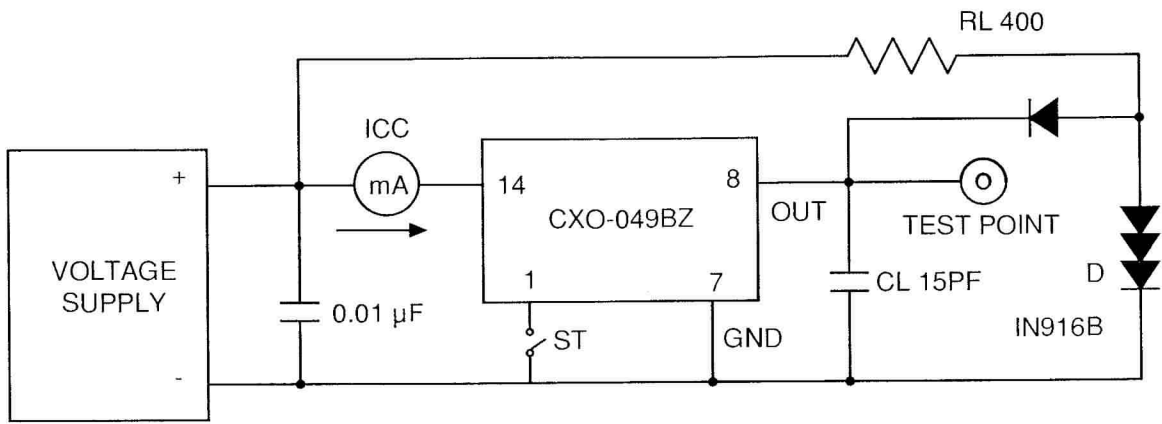
UNIT : mm (inch)

Lot Marking



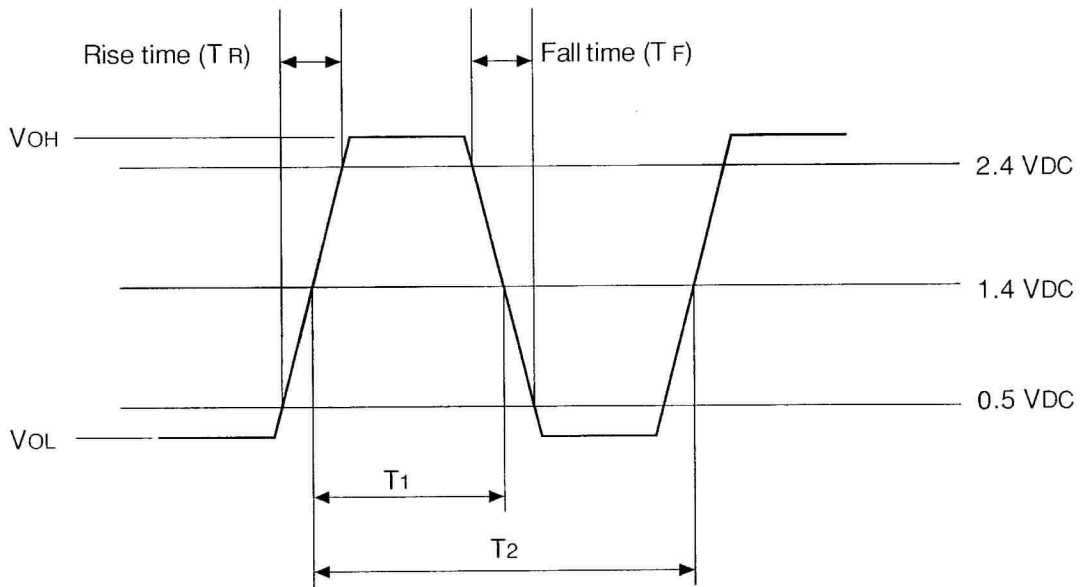
Code	A	B	C	D	E	F	G	H	J	K	L	M
Month	1	2	3	4	5	6	7	8	9	10	11	12

TEST CIRCUIT DIAGRAM



(CL includes stray capacitance of measuring circuit and probe)

OUTPUT WAVE FORM



$$\text{DUTY (\%)} = (T_1/T_2) \times 100$$

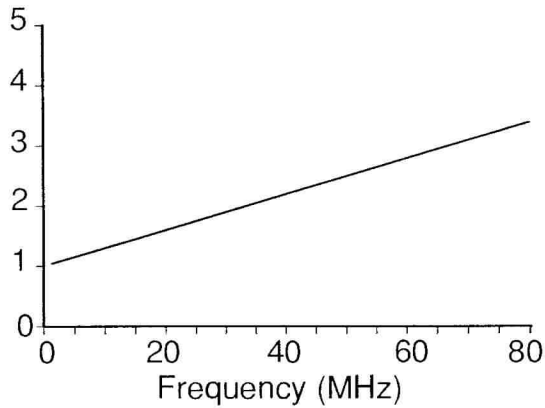
HANDLING INSTRUCTIONS

- Please confirm that each terminal is properly identified before connecting. Improper connection may damage the internal circuitry.

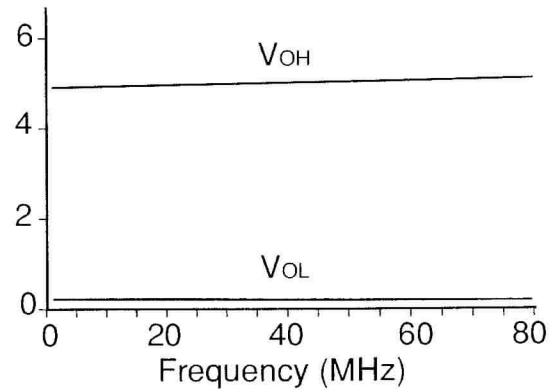
TYPICAL DATA

Measurement condition : $V_{CC}=5.0V$ (except Start-up voltage), $T_a=25^{\circ}C$,
TTL10, $C_L=15pF$

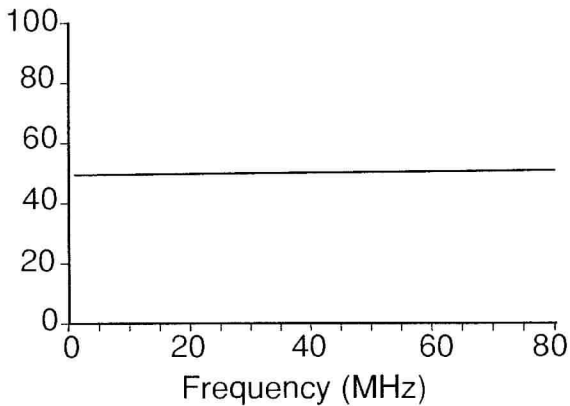
Start-up voltage (V)



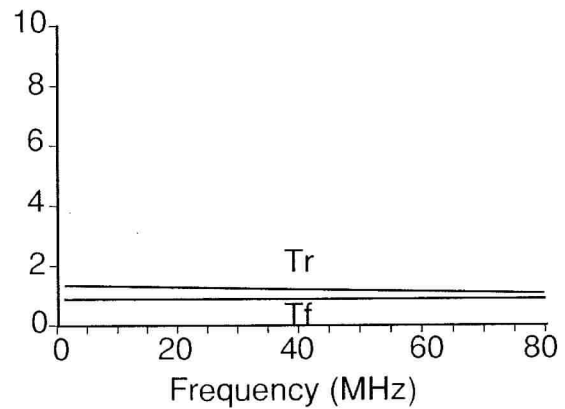
Output voltage (V)



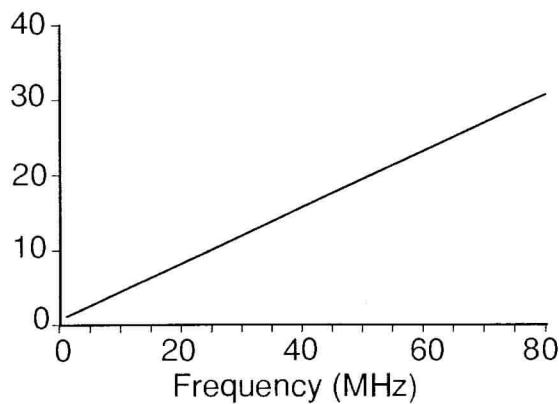
Symmetry (%)



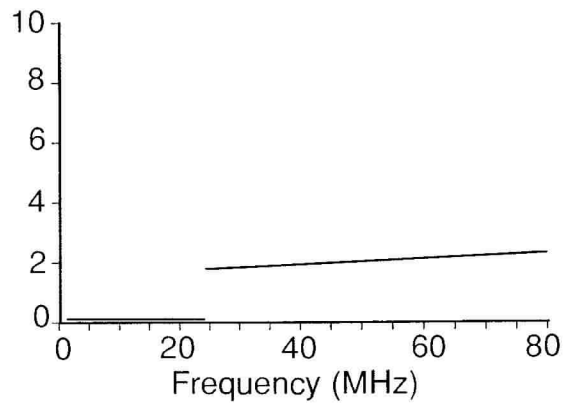
Rise time, Fall Time (ns)



Supply current (mA)



Start-up time (ms)



Specifications subject to change without notice

Jan.92



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