



FEATURE

- All metal welded package
- Wide frequency range from 32 KHz upto 160 MHz
- CMOS IC circuit construction built in with Tristate function
- HCMOS / TTL compatible in general application
- RoHS Compliant Standard

Table 1

Codes	Stability Codes	D	E	F	G	M	K
	Frequency stability range	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±50 PPM	±100 PPM
A	0 to +50° C						
B	0 to +60° C						
F	0 to +70° C						
D	-10 to +60° C						
E	-10 to +70° C						
C	-20 to +70° C						
G	-30 to +80° C						
H	-30 to +85° C						
I	-40 to +85° C						
J	-40 to +90° C						
K	-55 to +105° C						
L	-55 to +125° C						

Denotes Available Denotes not Available

Table 2

Supply Voltage	5V		3.3V
Series	CXO-300	CXO-400	CXO-425
	CXO-1300	CXO-1400	CXO-1425

MECHANICAL SPECIFICATIONS

	Full Size	Half Size
Top View		
Front View		
Bottom View		

Note: Sharp edge indicates Pin 1. ▲ All dimensions are in mm.

Pin Configuration for Full Size-DIL 14

Pin Configuration for Half Size-DIL8

- 1: No connection E/D control (optional)
- 7: Ground
- 8: Output
- 14: DC Input

- 1: No connection E/D control (optional)
- 4: Ground
- 5: Output
- 8: DC Input

Upon request Screening Tests are available as per MIL-O-55310D Class "B" mentioned below:

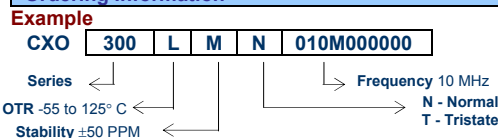
- 1. Temperature Cycling
- 2. Constant Acceleration
- 3. Fine Leak
- 4. Gross Leak
- 5. Pre Burn-In electrical
- 6. Burn-In (Load)
- 7. Final Electrical Test

Parameters	Variant	
	HCMOS	TTL
Series: CXO -300 (Full Size-All 14 pins) CXO-400, CXO -425 (Full Size-All 14 pins) CXO -1300 (Half Size-All 8 pins) CXO-1400, CXO-1425 (Half Size-All 8 Pins)	■	■
Frequency Range: 32 KHz – 160 MHz (CXO-300) 32 KHz – 160 MHz (CXO-400 & CXO-1400) 32 KHz – 160 MHz (CXO-1300) 32 KHz – 120 MHz (CXO-425 & CXO-1425)	■	■
Output Drive: 50 pF max. 1 to 10 TTL gates	■	■
Logic Levels: '0' = 0.4V max. '1' = 2.4 Vmin. '0' = 10% of Vcc max. '1' = 90% of Vcc min.	■	■
Rise / Fall time: 10 ns max. (Between Logic 0 & Logic 1 Level)	■	■
Start up time: 10 ms max	■	■
Waveform Symmetry: 40 to 60 % @ 1.4 V.DC 40 to 60 % @ ½ Vcc	■	■
Output Waveform: Square Wave	■	■
Frequency Stability: (Table 1)	□	□
Temperature Range: (Table 1)	□	□
Supply Voltage (Vcc): +5.0V DC (±10%) +3.3V DC (±10%)	■	■
Supply Current: For 5 Volts 30 mA max (32 KHz – 24 MHz) 40 mA max (24 MHz – 50 MHz) 50 mA max (50 MHz – 80 MHz) 80 mA max (80 MHz – 160 MHz)	■	■
Supply Current: For 3.3 Volts 15 mA max (32 KHz – 24 MHz) 20 mA max (24 MHz – 50 MHz) 25 mA max (50 MHz – 80 MHz) 40 mA max (80 MHz – 120 MHz)	■	■
Tristate (Optional) (E/D Option): Out put enable when Pin 1 is 2.0 V DC min. (or) Open /output disable when Pin 1 is 0.8V DC max. (or) Ground	■	■
Ageing: ± 5 ppm per year max.	■	■
Storage Temperature Range: -55 to +125° C	■	■

■ Standard, □ Optional – please specify required code(s) when ordering.

Tests	Condition
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I

Ordering Information



Specifications subject to change without notice
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