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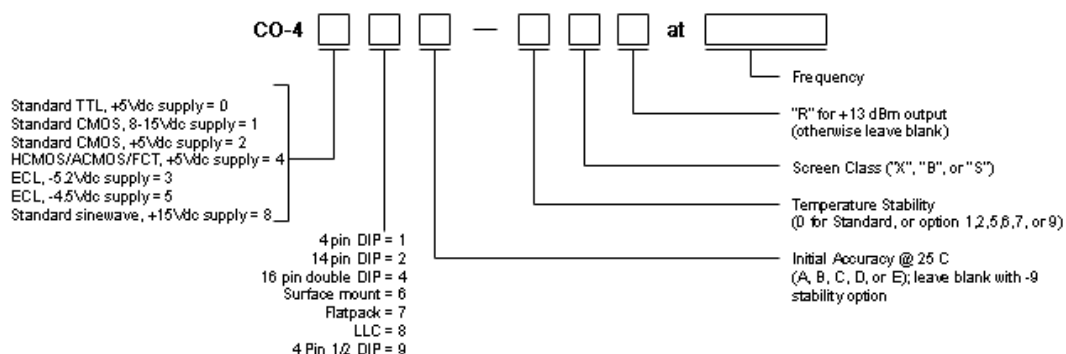
[XOs](#) > [CO-448](#)**CO-448 HCMOS, AC MOS and FCT Clock Oscillators****Features:**

- 100 kHz to 50 MHz Frequency Range
- Sealed Ceramic Leadless Chip Carrier
- HCMOS/AC MOS/FCT/ACT Compatible
- Lowest Profile

SPECIFICATIONS	
Series	CO-448: Leadless Chip Carrier
Frequency	100 kHz-50 MHz
Supply	5 Vdc \pm 5%
Accuracy (Maximum Error at 25°C)	CO-448A \pm 50 ppm CO-448C \pm 25 ppm <small>*Stability via external capacitor; (<60 MHz only; except 449E \leq 20 MHz)</small>
Temperature Stability <small>Improved accuracy/stability available on some models. For example, for \pm7 ppm over 0°C to +50°C and for \pm10ppm over 0°C to +70°C. Improvement is also available over wider temperature ranges. Please contact factory.</small>	STANDARD: 0°C to +70°C: \pm 25 ppm Option 1: -55°C to +85°C: \pm 50 ppm Option 2: -55°C to +125°C: \pm 50 ppm Option 5: 0°C to +50°C: \pm 5 ppm Option 6: 0°C to +50°C: \pm 10 ppm Option 7: -55°C to +125°C: \pm 100 ppm *Option 9: -55°C to +200°C: \pm 300 ppm (Option 9: N/A in CO-448 or above 20 MHz in CO-440 Series) *Specified stability includes initial accuracy; do not specify A,B,C,D or E accuracy.
Aging Rate (typical after 30 days)	3 ppm first year 2 ppm/year thereafter

[top of page](#)**How to Order Hybrid XO's - CO-400 Series**

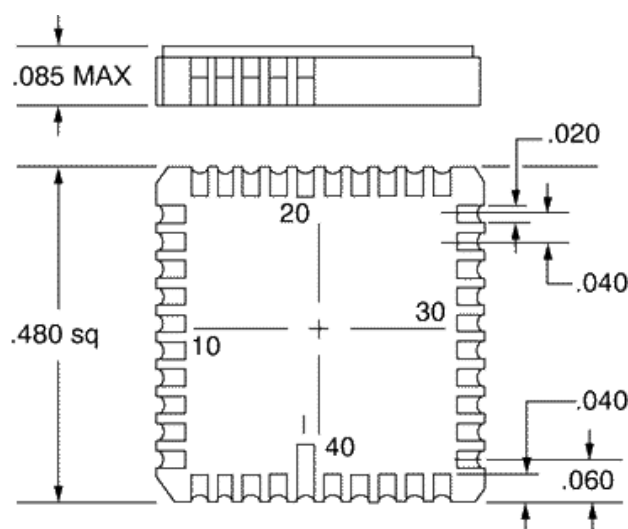
(Note: Not all combinations possible. See above for appropriate options.)

**SCREEN TESTING OF ABOVE MODELS**

SCREEN TEST	MIL-STD-883 METHOD	Standard	Options		
		CLASS X	CLASS D	CLASS B	CLASS S
Stabilization Bake (150°C)	—	X	X	X	Class S screen test requirements include 24 hour additional bake-out, 80 hour additional burn-in, thermal shock, PIND test and radiographic inspection in addition to Class B Screening. Has major cost impact.
Seal Test (Gross and Fine)	1014, Cond A2	X	X	X	
Temperature Cycling (Thermal Shock)	1010, Cond B		X	X	
Burn-in, operating 160 hours @125°C	—		X	X	
Acceleration (5000g in Y ₁ axis)	2001, Cond A			X	

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CO-448



Dimension in inches

Pinouts

Pin	Function
4	+5Vdc
10	+5Vdc
31	Ground
37	Ground
39	Output
Other	N/C

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