VECTRON INTERNATIONAL A DOVER COMPANY

Helping Customers **Innovate, Improve & Grow**

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CO-442 HCMOS, ACMOS and FCT Clock Oscillators

Features:

- 1 Hz to 175 MHz Frequency Range
- Low Profile 14 Pin Dip
- HCMOS/ACMOS/FCT/ACT Compatible
- Tri-state Output Available
- Available with 3.3 Vdc input below 20 MHz
- Available as QPL to MIL-0-55310/18B&26B

SPECIFICATIONS

Series	**CO-442:** 14 Pin Dip
Frequency	1 Hz-175 MHz
Supply	5 Vdc ± 5% (Available with 3.3 Vdc input below 20 Mhz)
Accuracy **(Maximum Error at 25°C)**	**CO-442A** ±50 ppm **CO-442C** ±25 ppm **CO-442D** ±15 ppm **CO-442B** ±10 ppm **CO-442E** ±1 ppm* *Settability via external capacitor; (<60 MHz only; except 449E ≤20 MHz)
Temperature Stability Improved accuracy/stability available on some models. For example, for ±7 ppm over 0°C to +50°C and for ±10ppm over 0°C to +70°C. Improvement is also available over wider temperature ranges. Please contact factory.	**STANDARD:** 0°C to +70°C: ±25 ppm Option **1**: -55°C to +85°C: ±50 ppm Option **2**: -55°C to +125°C: ±50 ppm Option **5**: 0°C to +50°C: ±5 ppm Option **6**: 0°C to +50°C: ±10 ppm Option **7**: -55°C to +125°C: ±100 ppm *Option **9**: -55°C to +200°C: ±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

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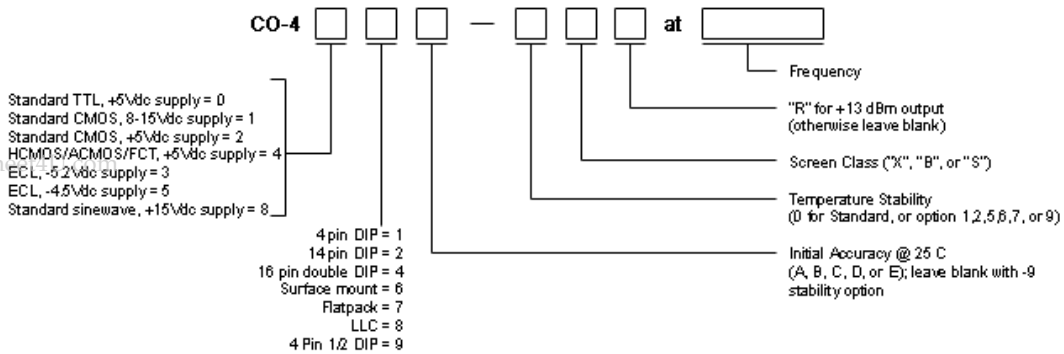
How to Order Hybrid XO's - CO-400 Series

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



SCREEN TESTING OF ABOVE MODELS					
		Standard	Options		
SCREEN TEST	MIL-STD-883 METHOD	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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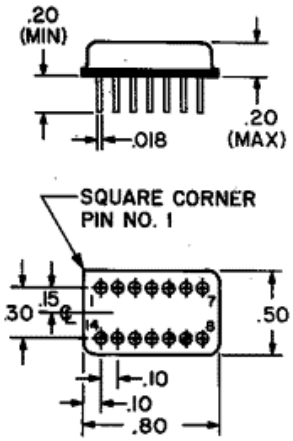

Dimension in inches

Pinouts

Pin	Function
1	*N/C
7	OV, case, gnd
8	Output
14	Supply +

Other N/C

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