

Product Search

CO-449 HCMOS, ACMOS and FCT Clock Oscillators

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Features:

- Frequency range: 1 Hz to 100 MHz
- Supply: 5 v
- Available with 3.3 Vdc input below 20 MHz
- Output: HCMOS/ACMOS/FCT/ACT Compatible
- Package: Low Profile 4 Pin 1/2 Dip
- Extended temp range: -55°C to 125°C
- Tri-state Output Available

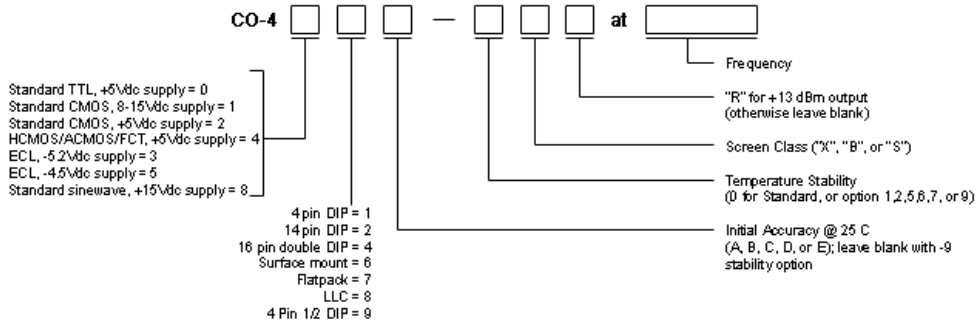
SPECIFICATIONS

Series	CO-449: 4 Pin 1/2 DIP
Frequency	1 Hz-100 MHz
Output	HCMOS ≤ 50 MHz, ACMOS > 50 MHz
Supply	5 Vdc ± 5% (Available with 3.3 Vdc input below 20 MHz)
Accuracy (Maximum Error at 25°C)	A : ± 50 ppm, C = ± 25 ppm, D = ±15 ppm B : ± 10 ppm, E ¹ = ± 1 ppm *Settability via external capacitor; (<30 MHz only)
Temperature Stability <small>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.</small>	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: ±10 ppm *Option 9: -55°C to +200°C: ±300 ppm (Option 9: N/A above 20 MHz in CO-449 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
Screen Tests:	Class X: Seal test per MIL-STD-883, Method 1014, Condition A2 (gross and fine) stabilization bake @ +150°C

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

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

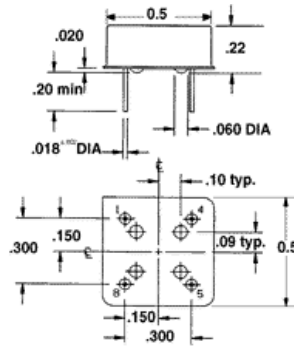


SCREEN TESTING OF ABOVE MODELS

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
Seal Test					

(Gross and Fine)	1014, Cond A2	X	X	X	additional burn-in, thermal shock, PIND test and radiographic inspection in addition to Class B Screening. Has major cost impact.
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
4	OV, case, gnd
5	Output
8	B+

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