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 $\underline{XOs} > CO-448$

CO-448 HCMOS, ACMOS and FCT Clock Oscillators



Features:

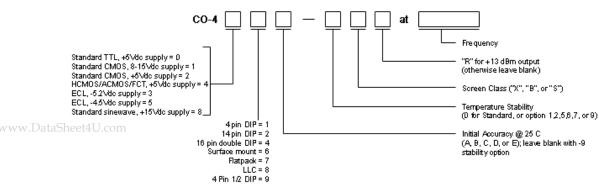
- 100 kHz to 50 MHz Frequency Range
- Sealed Ceramic Leadless Chip Carrier
- HCMOS/ACMOS/FCT/ACT Compatible
- Lowest Profile

SPECIFICATIONS						
Series	CO-448: Leadless Chip Carrier					
Frequency	100 kHz-50 MHz					
Supply	5 Vdc ± 5%					
Accuracy (Maximum Error at 25°C)	CO-448A ±50 ppm CO-448C ±25 ppm *Settability via external capacitor; (<60 MHz only; except 449E ≤20 MHz)					
Temperature Stability	STANDARD:	0°C	to	+70°C:	±25 ppm	
Improved accuracy/stability available on some models. For example, for ±7 ppm over 0°C to +50°C and for	Option 1:	-55°C	to	+85°C:	±50 ppm	
± 10 ppm over 0°C to $+70$ °C. Improvement is also available over wider temperature ranges. Please contact factory.	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 *Specified stabil do not specify A	ity includes	s initi	al accuracy:	in CO-440 Series)	
Aging Rate (typical after 30 days)	3 ppm first year 2 ppm/year there	eafter				

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

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

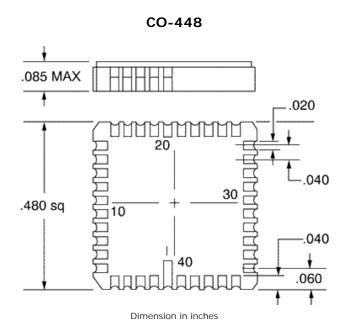


SCREEN TESTING OF ABOVE MODELS

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

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Pinouts

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

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