



Helping Customers Innovate, Improve & Grow

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CO-408 Custom Hybrid TTL Clock Oscillators



Features:

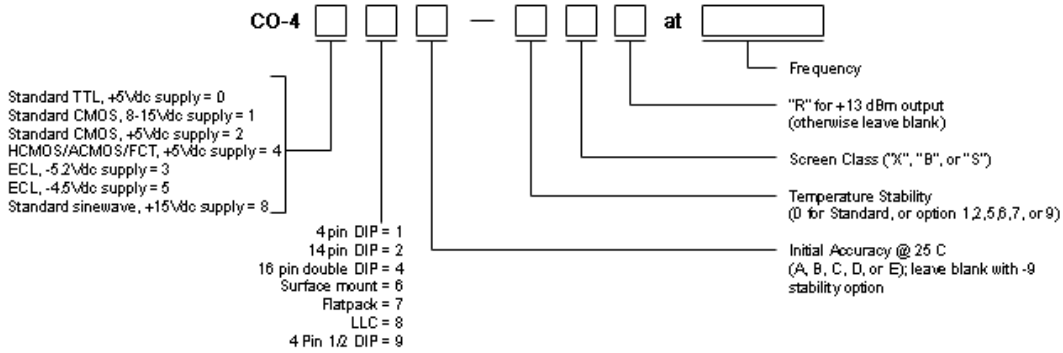
- Sealed Ceramic Leadless Chip Carrier
- Small Size
- Lowest Profile
- 1 MHz to 60 MHz frequency range

SPECIFICATIONS																			
Series	CO-408: Leadless Chip Carrier																		
Frequency	1 MHz-60 MHz																		
Supply	5 Vdc \pm 5% , < 70mA																		
Accuracy (at 25°C)	CO-408A \pm 50 ppm CO-408C \pm 25 ppm																		
Temperature Stability	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																		
Aging Rate (typical after 30 days)	3 ppm first year 2 ppm/year thereafter																		
Case	seam welded metal case																		
Output	<table border="0"> <tr> <td>Output:</td> <td><12.5 MHz</td> <td>\geq12.5 MHz</td> </tr> <tr> <td>Drive:</td> <td>10 TTL</td> <td>10 STTL</td> </tr> <tr> <td>"0" Level:</td> <td><0.4V</td> <td><0.4V</td> </tr> <tr> <td>"1" Level:</td> <td>>2.4V</td> <td>>2.4V</td> </tr> <tr> <td>Rise/Fall Time: (0.5-2.4V)</td> <td><15ns</td> <td>2-5ns</td> </tr> <tr> <td>Symmetry: at 1.5V</td> <td>55/45</td> <td>60/40</td> </tr> </table> <p>If improved symmetry is required, please contact factory.</p>	Output:	<12.5 MHz	\geq 12.5 MHz	Drive:	10 TTL	10 STTL	"0" Level:	<0.4V	<0.4V	"1" Level:	>2.4V	>2.4V	Rise/Fall Time: (0.5-2.4V)	<15ns	2-5ns	Symmetry: at 1.5V	55/45	60/40
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"0" Level:	<0.4V	<0.4V																	
"1" Level:	>2.4V	>2.4V																	
Rise/Fall Time: (0.5-2.4V)	<15ns	2-5ns																	
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How to Order Hybrid XO's - CO-400 Series

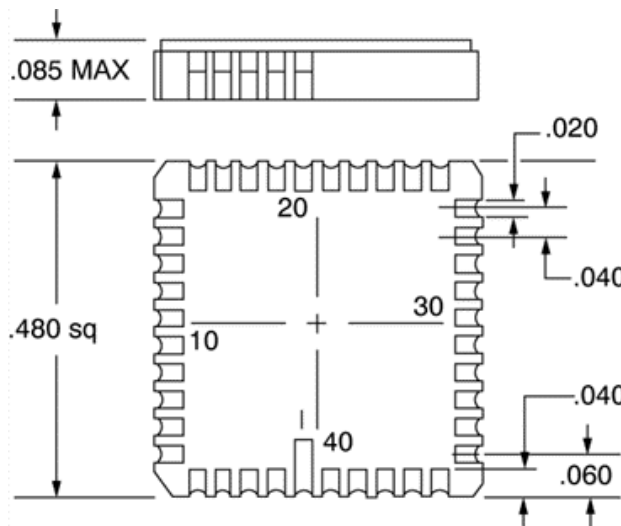
(Note: Not all combinations possible. See above for appropriate options.)



SCREEN TESTING OF ABOVE MODELS					
SCREEN TEST	MIL-STD-883 METHOD	Options			
		Standard 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-408



Dimension in inches

Pinouts

Pin	Function
4	+5Vdc
10	+5Vdc
31	Ground
37	Ground

39 Output
Other N/C

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