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## CO-432/452 ECL/PECL Clock Oscillators



## Features:

- Frequencies from 5 MHz to 200 MHz
- Low Profile 14 Pin Dip
- 10K, 10KH, 100K, ECLinPS, 10E/EL and 100E/EL Logic
- CO431 Available as QPL to MIL-0-55310/25B

SPECIFICATIONS								
Part	CO-432				CO-452			
Series	14 Pin Dip							
Frequency	5 MHz-200 MHz							
Output	Output taken directly from 10K, 10KH, ECLinPS or ECLinPS Lite gate, depending on temperature and frequency range. Complementary outputs optional.  Output taken directly from 10K, ECLinPS Lite gate, depending on and frequency range. Complement optional.							
Supply	-5.2 Vdc ± 5% <45 mA to 110 MHz <70 mA above 110 MHz				-4.5 Vdc±5% at <60 mA			
Accuracy (at 25°C)	CO-432C: ±25 ppm				CO-452C: ±25 ppm			
Temperature Stability	STANDARD:	0°C	to	+70°C:	±2	25 ppm		
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.	Option 1:	-55°C	to	+85°C:	± 5	50 ppm		
	Option 2:	-55°C	to	+125°C:	±5	0 ppm		
	Option 5:	0°C	to	+50°C:	±5	ppm		
	Option 6:	0°C	to	+50°C:	±1	10 ppm		
	*Option 7:	-55°C	to	+125°C:	±1	100 ppm		
	*-1,-2,-7 restricted to -30/+85°C above 110 MHz in CO-233ME							
Aging Rate (typical after 30 days)	3 ppm first year 2 ppm/year thereaf	ter				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.)

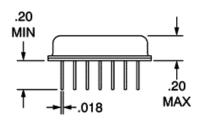
Standard TTL, +6\dc supply = 0
Standard CM08, 8-16\dc supply = 1
Standard CM08, 4\dc supply = 2
Standard Standa

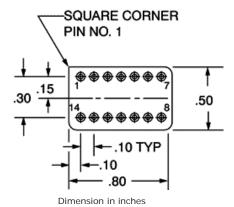
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4 Pin 1/2 DIP = 9

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	Х	Class S screen test requirements include 24			
Seal Test (Gross and Fine)	1014, Cond A2	×	Х	Х	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.			
Temperature Cycling (Thermal Shock)	1010, Cond B		Х	Х				
Burn-in, operating 160 hours @125°C	-		Х	Х				
Acceleration (5000g in Y <sub>1</sub> axis)	2001, Cond A			Х				

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## Pinouts

Pin Function
7 Supply (-)
8 Output
14 OV, case
Other \*N/C

#For external tuning, "E" accuracy, connect variable capacitor with nominal range of 5-30 pF from pin 2 to pin 3.

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<sup>\*</sup> Unlisted pins may be used internally