

Helping Customers Innovate, Improve & Grow

XOs > CO-431/451

CO-431/451 ECL/PECL Clock Oscillators



Features:

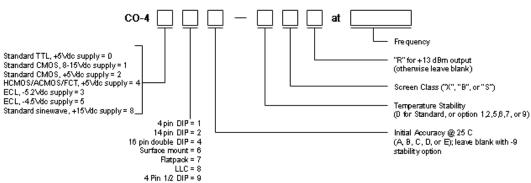
- Frequencies from 5 MHz to 200 MHz
- Low Profile 4 Pin Dip
- 10K, 10KH, 100K, ECLinPS, 10E/EL and 100E/EL Logic
- CO431 Available as QPL to MIL-0-55310/25B

SPECIFICATIONS								
Part	CO-431				CO-451			
Series	4 Pin Dip							
Frequency	5 MHz-200 MHz							
Output		ate, depend			Output taken directly from 100K, ECLinPS or ECLinPS Lite gate, depending on temperature and frequency range.			
Supply	-5.2 Vdc ± 5% <45 mA to 110 N <70 mA above 1				-4.5 Vdc±5% at <60 mA			
Accuracy (at 25°C)	CO-431A : ±50 p	pm			CO-451A : ±50 ppm			
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 ± 10 ppm over 0°C to ± 70 °C. Improvement is also available over wider temperature ranges. Please contact factory.	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			
	*-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 there	eafter			3 ppm first year <2 ppm/year thereafter			

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

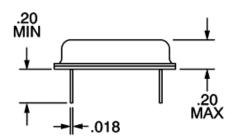
(Note: Not all combinations possible. See above for appropriate options.)

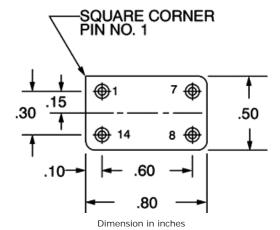


http://www.vectron.com/products/xo/CO-431_451.htm

SCREEN TESTING OF ABOVE MODELS								
SCREEN TEST	MIL-STD-883 METHOD	Standard CLASS X	Options					
			CLASS D	CLASS B	CLASS S			
Stabilization Bake (150°C)	_	x	Х	Х	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	х	Х	Х				
Temperature Cycling (Thermal Shock)	1010, Cond B		Х	Х				
Burn-in, operating 160 hours @125°C	_		Х	х				
Acceleration (5000g in Y ₁ axis)	2001, Cond A			Х				

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Pinouts

Pin Function

7 Supply (-)

8 Output

14 OV, case

1 N/C

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