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Helping Customers **Innovate, Improve & Grow**

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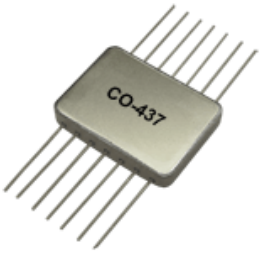
XOs > CO-437/457

CO-437/457 ECL/PECL Clock Oscillators



Features:

- Frequencies from 5 MHz to 700 MHz
- Low profile 14 Pin Flatpack
- 10K, 10KH, 100K, ECLinPS, 10E/EL and 100E/EL Logic

SPECIFICATIONS		
Part	**CO-437**	**CO-457**
Series	14 Pin Flatpack	
Frequency	5 MHz-700 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 100K, ECLinPS or ECLinPS Lite gate, depending on temperature and frequency range. Complementary outputs 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-437E:** ±1 ppm	**CO-457E:** ±1 ppm
	E= set to ±1 ppm via external capacitor (≤ MHz in CO-432 and ≤240MHz in CO-434/37 package)	
Temperature Stability 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.	**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: ±100 ppm	
Aging Rate (typical after 30 days)	3 ppm first year 2 ppm/year thereafter	3 ppm first year <2 ppm/year thereafter

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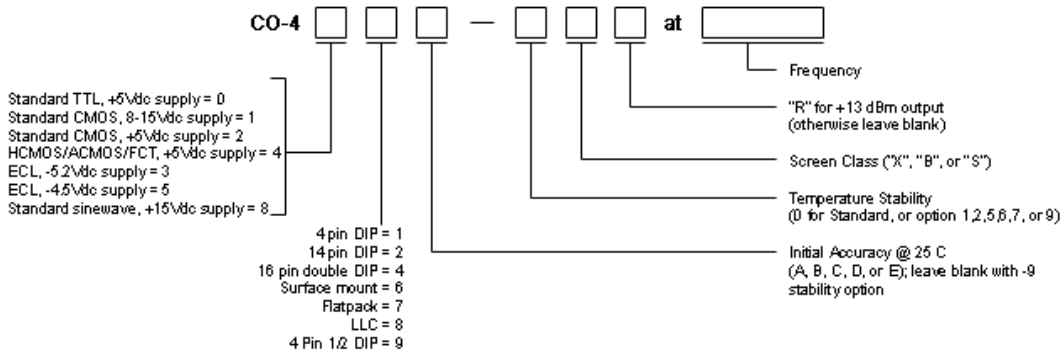
How to Order Hybrid XO's - CO-400 Series

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



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	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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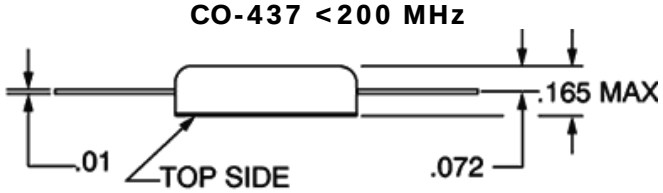
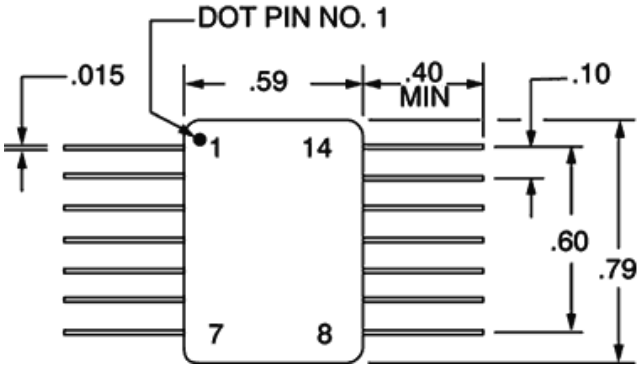
CO-437 <200 MHz





Dimension in inches

Pinouts

Pin	Function
7	Supply (-)
8	Output

14	OV, case
Other	N/C

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