



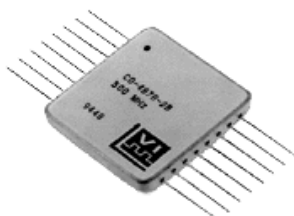
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CO-487 Sinewave Crystal Oscillators



Features:

- Frequencies from 4 MHz to 500 MHz
- Miniature Hybrid Design
- 16 Pin Double DIP or 16 Pin Flatpack
- +13 dBm output available

SPECIFICATIONS				
Series	CO-487: Miniature Hybrid			
Frequency	4 MHz to 500 MHz			
Output	Standard: 0.5 Vrms/50Ω (+7 dBm) Option R: 1 Vrms/50Ω (+13 dBm) High level option: 1 watt (+30 dBm) available in 2" x 3" x 0.75" package			
Supply	+15 Vdc ±5% (Any supply in 12-24 Vdc range optional; supply less than +15 Vdc subject to reduced output level)			
Accuracy (at 25°C)	CO-487A: ±50 ppm CO-487C: ±25 ppm CO-487D: ±15 ppm CO-487B: ±10 ppm *CO-487E: ±1 ppm *Set via external capacitor.			
Temperature Stability	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 (not available in CO-287W) Option 3: 0°C to +50°C: ±3 ppm (not available in CO-484, CO-487, CO-287W) Option 5: 0°C to +50°C: ±5 ppm Option 6: 0°C to +50°C: ±10 ppm			
Aging Rate (typical after 30 days)	3 ppm first year <2 ppm per year thereafter			
Phase Noise (typical 4-100 MHz)	Offset from Carrier	Standard	Option L1*	Option L2**
	100 Hz	-100 dBc/Hz	-115 dBc/Hz	-120 dBc/Hz
	1 kHz	-125 dBc/Hz	-140 dBc/Hz	-145 dBc/Hz
	10 kHz	-140 dBc/Hz	-150 dBc/Hz	-160 dBc/Hz
	50 kHz	-145 dBc/Hz	-155 dBc/Hz	-160 dBc/Hz
Noise degrades by 6 dB per octave above 100 MHz *L1 Option is not available in CO-281, CO-484, CO-487 **L2 Option is available only in CO-233FW and is limited to 200 MHz: above 100 MHz, output of CO-233FWL2 is restricted to +7 dBm.				

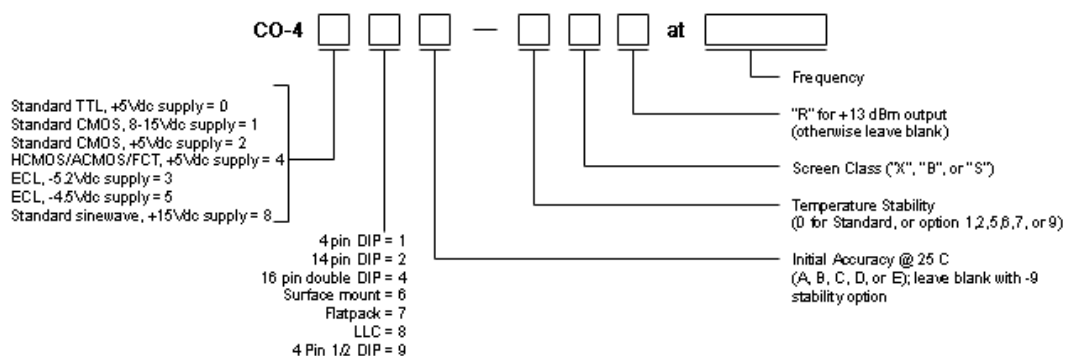
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How to Order Hybrid XO's - CO-400 Series

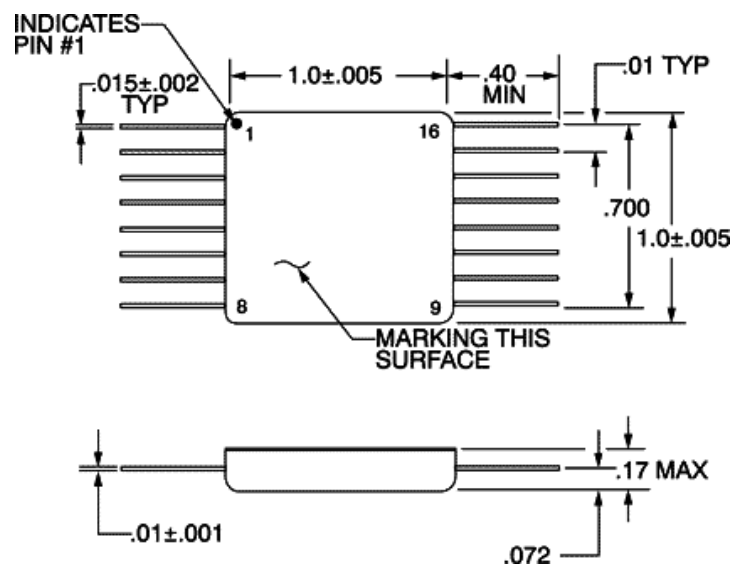
(Note: Not all combinations possible. See above for appropriate options.)



SCREEN TESTING OF ABOVE MODELS

SCREEN TEST	MIL-STD-883 METHOD	Standard	Options		
		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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Dimension in inches

Pinouts

*Pin	Function
8	0V, Case
9	Output
11	**
16	Supply

*Unlisted pins may be used internally
** ≤ 200 MHz: no connection
>200 Mhz: 0V, Case
E Option, connect 5-30 pf capacitor from pin 5 to pin 8.

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