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XOs > CO-487

CO-487 Sinewave Crystal Oscillators



Features:

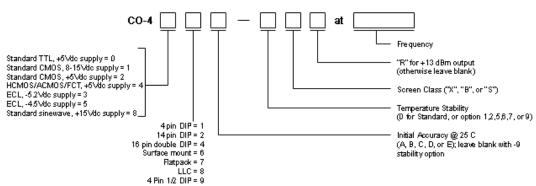
- Frequencies from 4 MHz to 500 MHz
- Miniature Hybrid Design
- 16 Pin Double DIP or 16 Pin Flatpack
- +13 dBm output available

SPECIFICATIONS						
Series	CO-487: Miniature Hybrid					
Frequency	4 MHz to 500 MHz					
Output	Standard: $0.5 \text{ Vrms/50}\Omega$ (+7 dBm) Option R : $1 \text{ Vrms/50}\Omega$ (+13 dBm) High level option: 1 watt (+30 dBm) available in 2" x 3" x 0.75" package					
Supply	\pm +15 Vdc \pm 5% (Any supply in 12-24 Vdc range optional; supply less than \pm 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		
	(no	available	in CO-287	'W)		
	Option 3: 0°C	to	+50°C:	±3 ppm		
	(no	(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 Carrie 100 Hz 1 kHz 10 kHz 50 kHz	-100 -125 -140 -145	ndard O dBc/Hz O dBc/Hz O dBc/Hz O dBc/Hz	-150 dBc/Hz -155 dBc/Hz	Option L2** -120 dBc/Hz -145 dBc/Hz -160 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.					
	above 100 WITI	_, Juipul U	. 50-2551	13 1031110101	a to 17 abili.	

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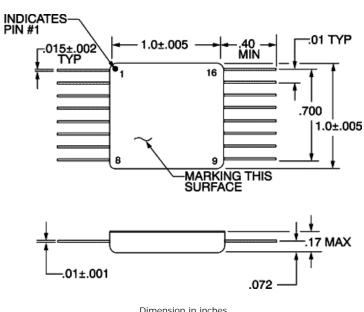
How to Order Hybrid XO's - CO-400 Series

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



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

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Dimension in inches

<u>*Pin</u>	Function
8	OV, Case
9	Output
11	**
16	Supply

*Unlisted pins may be used internally $**\leq 200$ MHz: no connection

>200 Mhz: OV, Case

E Option, connect 5-30 pf capacitor from pin 5 to pin 8.

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