

Helping Customers Innovate, Improve & Grow

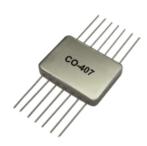
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<u>XOs</u> > CO-407

## **CO-407 Custom Hybrid TTL Clock Oscillators**

## Features:

- Low Profile 14 Pin Flatpack
- Seam Welded Metal Can
- 3 Point Mount Crystal

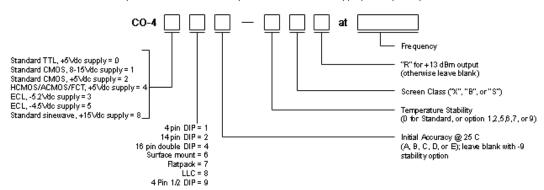


SPECIFICATIONS						
Series	s CO-407: Flatpack					
Frequency	16 kHz-100 MHz					
Supply	5 Vdc ± 5%					
Accuracy (at 25°C)	CO-407A ±50 ppm CO-407C ±25 ppm CO-407D ±15 ppm CO-407B ±10 ppm CO-407E ±1 ppm*					
Townson Alexander Charles Higher	*Settability via external capa					
Temperature Stability	STANDARD:	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 ±10ppm over 0°C to +70°C. Improvement is also available over wider temperature ranges. Please contact	Option 1:	-55°C	to +85°C:	±50 ppm		
factory.	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		
	*Option 9:	-55°C	to +200°C:	±300 ppm		
	(Option 9: Only for CO-401/2/6/7 series in 4-20 MHz range) *Specified stability includes initial accuracy: do not specify A,B,C,D or E accuracy.					
Aging Rate (typical after 30 days)	3 ppm first year 2 ppm/year thereafter					
Case	seam welded metal case					
Output	Output:	<4 MH	z 4-20 MHz	>20 MHz		
	Drive:	10 TTL	10 TTL	10 STTL		
	"0" Level:	<0.4V	<0.4V	<0.4V		
	"1" Level:	>2.4V	>2.4V	>2.4V		
	Rise/Fall Time: (0.5-2.4V)	<15ns	<15ns	2-5ns		
	Symmetry: at 1.5V	55/45	60/40	60/40		
	If improved symm	etry is re	quired, please o	ontact factory.		

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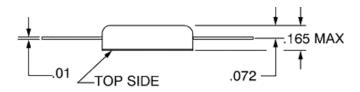
## How to Order Hybrid XO's - CO-400 Series

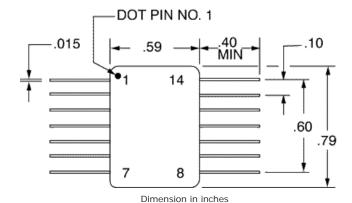
(Note: Not all combinations possible. See above for appropriate options.)



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	х	Class S screen test requirements include 24	
Seal Test (Gross and Fine)	1014, Cond A2	Х	Х	х	hour additional bake-out, 80 hour additional burn-in, thermal shock, PIND test	
Temperature Cycling (Thermal Shock)	1010, Cond B		Х	х	and radiographic inspection in addition to Class B	
Burn-in, operating 160 hours @125°C	_		Х	х	Screening. Has major cost impact.	
Acceleration (5000g in Y <sub>1</sub> axis)	2001, Cond A			Х		

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## Pinouts

<u>Pin</u>	<u>Function</u>
1	*N/C
7	OV, case, gnd
8	Output
14	+5V

Other N/C

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