

Helping Customers Innovate, Improve & Grow

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<u>XOs</u> > CO-402

CO-402 Custom Hybrid TTL Clock Oscillators



Features:

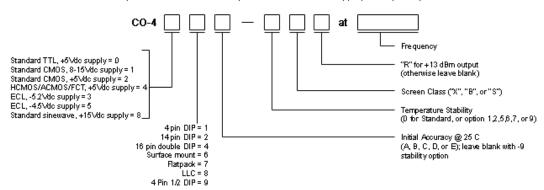
- Low Profile 14 Pin DIP
- Resistance Welded Metal Can
- 3 Point Mount Crystal
- 16 kHz to 100 MHz Frequency Range
- Available as QPL to Mil-0-55310/16 B&S

SPECIFICATIONS								
Series	CO-402: 14 Pin DIP							
Frequency	16 kHz-100 MHz							
Supply	5 Vdc ± 5%							
Accuracy (at 25°C)	CO-402A ±50 ppm CO-402C ±25 ppm CO-402D ±15 ppm CO-402B ±10 ppm CO-402E ±1 ppm*							
	*Settability via external capacitor; 16 kHz-60 MHz only.							
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	Resistance 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 symmetry is required, please contact factory.							

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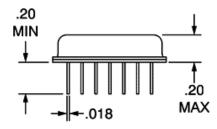
How to Order Hybrid XO's - CO-400 Series

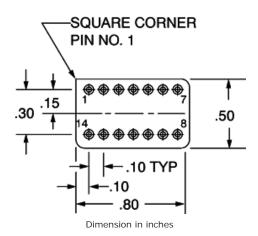
(Note: Not all combinations possible. See above for appropriate options.)



SCREEN TESTING OF ABOVE MODELS								
SCREEN TEST	MIL-STD-883 METHOD	Standard CLASS X	Options					
			CLASS D	CLASS B	CLASS S			
Stabilization Bake (150°C)	_	Х	Х	x	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 ₁ axis)	2001, Cond A			Х				

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Pinouts

 Pin
 Function

 1
 *N/C

 7
 OV, case, gnd

 8
 Output

 14
 +5V

 Other
 N/C

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