

Product Search

## CO-406 Custom Hybrid TTL Clock Oscillators

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### Features:

- Frequency range: 16 kHz to 100 MHz
- Supply: 5 V
- Output: TTL
- Low Profile Surface Mount DIP
- Resistance Welded Metal Can
- 3 Point Mount Crystal

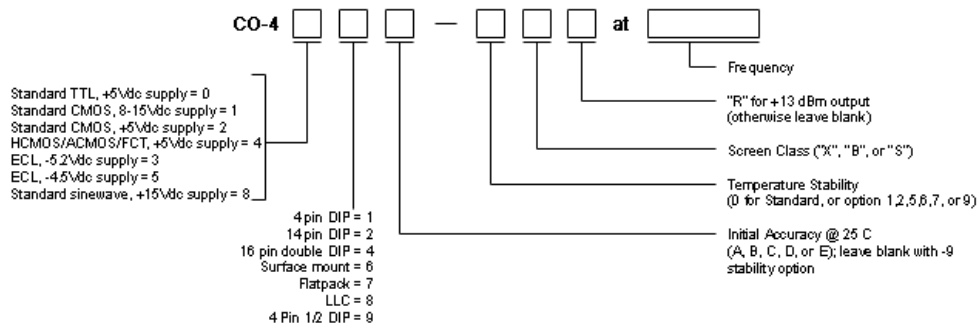
### SPECIFICATIONS

<b>Series</b>	<b>CO-406:</b> Surface Mount
<b>Frequency</b>	16 kHz-100 MHz
<b>Supply</b>	5 Vdc ± 5%
<b>Accuracy (at 25°C)</b>	<b>CO-406A</b> ±50 ppm <b>CO-406C</b> ±25 ppm <b>CO-406D</b> ±15 ppm <b>CO-406B</b> ±10 ppm <b>CO-406E</b> ±1 ppm*
<b>Temperature Stability</b>	<small>*Stability via external capacitor; 16 kHz-60 MHz only.</small> <b>STANDARD:</b> 0°C to +70°C: ±25 ppm <b>Option 1:</b> -55°C to +85°C: ±50 ppm <b>Option 2:</b> -55°C to +125°C: ±50 ppm <b>Option 5:</b> 0°C to +50°C: ±5 ppm <b>Option 6:</b> 0°C to +50°C: ±10 ppm <b>Option 7:</b> -55°C to +125°C: ±100 ppm <b>Option 9:</b> -55°C to +200°C: ±300 ppm <small>(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.</small>
<b>Aging Rate (typical after 30 days)</b>	3 ppm first year 2 ppm/year thereafter
<b>Case</b>	Resistance welded metal case
<b>Output</b>	Output:            -4 MHz    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:   <15ns    <15ns    2-5ns <small>(0.5-2.4V)</small> Symmetry:        55/45    60/40    60/40 <small>at 1.5V</small> <small>If improved symmetry is required, please contact factory.</small>

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

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



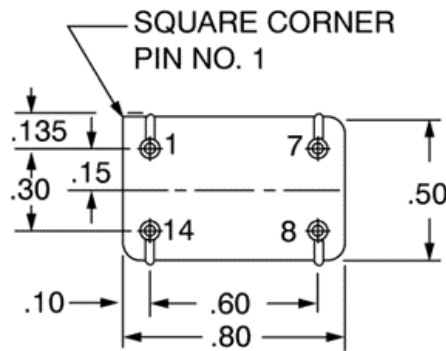
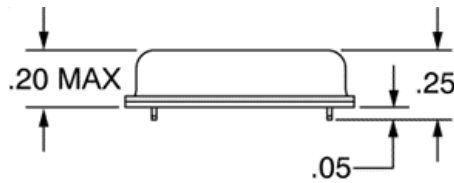
### SCREEN TESTING OF ABOVE MODELS

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 <sub>1</sub> axis)	2001, Cond A			X	

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### CO-406



Dimension in inches

#### Pinouts

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

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