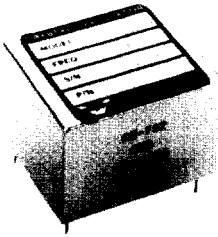


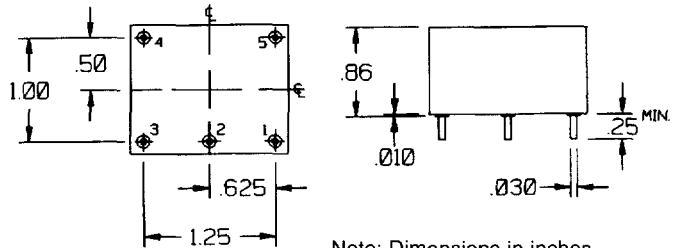
# Miniature PC Board Mount OCXOs (32KHz-50MHz)



## Features

- Frequencies from 32 kHz to 50 MHz
- Miniature PC Board Mount Design
- Ultra-High Temperature Stability
- Superior Aging Characteristics
- Very Fast Warm-up

## CO-734/737/738S Series



Note: Dimensions in inches

## SPECIFICATIONS

	CO-734, CO-737 SERIES (AT Cut Crystal)	CO-738S SERIES (SC/IT Cut Crystal)																								
<b>FREQUENCY</b>	5 MHz and 10 MHz standard. Other frequencies available in 4-50 MHz range with sine output and in 32 kHz-17 MHz range with logic output. See Series CO-724 for 50-400 MHz and CO-725 for 50-200 MHz.																									
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<b>Aging Rate</b>	$\left\{ \begin{array}{l} 4: 1 \times 10^{-8}/\text{day} (2 \times 10^{-8}/\text{year}) \\ 7: 1 \times 10^{-9}/\text{day} (3 \times 10^{-7}/\text{year}) \end{array} \right.$ (5 x 10 <sup>-10</sup> /day available at some frequencies)	5 x 10 <sup>-10</sup> /day (1 x 10 <sup>-7</sup> /year) 4 to 32 MHz only 5 x 10 <sup>-8</sup> /year optional at some frequencies 2 x 10 <sup>-8</sup> /year at 5 MHz optional																								
<b>Supply</b>	5 x 10 <sup>-9</sup> per percent with TO-8; 2 x 10 <sup>-9</sup> per percent	1 x 10 <sup>-9</sup> per percent with TO-8; 5 x 10 <sup>-10</sup> per percent																								
<b>Short Term (Allan Variance)</b>	5 x 10 <sup>-11</sup> per second	5 x 10 <sup>-12</sup> per second																								
<b>Warm-up (Restabilization)</b> (frequency relative to that two hours after turn-on following 24 hours off time at +25°C)	<table border="1"> <thead> <tr> <th>Stability</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1 x 10<sup>-6</sup></td> <td>5 minutes</td> </tr> <tr> <td>1 x 10<sup>-7</sup></td> <td>7 minutes</td> </tr> <tr> <td>3 x 10<sup>-8</sup></td> <td>10 minutes</td> </tr> <tr> <td>1 x 10<sup>-8</sup></td> <td>30 minutes</td> </tr> </tbody> </table> (If maximum operating temperature exceeds 70°C, warm-up time will increase)		Stability	Time	1 x 10 <sup>-6</sup>	5 minutes	1 x 10 <sup>-7</sup>	7 minutes	3 x 10 <sup>-8</sup>	10 minutes	1 x 10 <sup>-8</sup>	30 minutes														
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<b>Harmonics (Sinewave Output)</b>	20 dB below desired output. If internal multiplication is used, generally above 12 MHz, subharmonics are also -20 dBc. Harmonic and subharmonic attenuation can be improved on special order.																									
<b>Input Power</b>	6 watts at turn-on; less than 2 watts stabilized at +25°C. Higher power required for temperature beyond -20 to +70°C and lower power needed for 0 to +50°C.																									
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<b>FREQUENCY ADJUST</b> Tuning via external potentiometer	10 x 10 <sup>-6</sup> typical range for 0 to 6V control	2 x 10 <sup>-6</sup> typical range for 0 to 6V control																								