



ISSUE 9; January 2015 - RoHS 2011/65/EU



Description

- Surface mount temperature compensated crystal oscillator (TCXO) providing a high degree of frequency stability over a wide temperature range in a hermetically sealed ceramic package

Frequency Parameters

- Frequency: 10.0MHz to 40.0MHz
- Frequency Tolerance: $\pm 1.00\text{ppm}$
- Frequency Stability: $\pm 0.90\text{ppm}$
- Ageing: $\pm 1\text{ppm typ in 1st year @ } 25^\circ\text{C}$

Electrical Parameters

- Supply Voltage: $3.3\text{V} \pm 0.3\text{V}$
- Supply Voltage Variation (@ $\pm 5\%$ change):
 $< 30\text{MHz} \pm 0.3\text{ppm}$
 $30\text{MHz to } < 40\text{MHz} \pm 0.4\text{ppm}$
 $40\text{MHz} \pm 0.5\text{ppm}$
- Load Variation (@ $\pm 10\%$ change): $\pm 0.2\text{ppm}$
- Variation After Reflow: $\pm 1.0\text{ppm}$

Operating Temperature Ranges

- 20 to 70°C

Output Details

- Output Compatibility: HCMOS
- Drive Capability: 15pF nom

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: IEC 60068-2-27, Test Ea: 980m/s^2 acceleration for 6ms, 3 shocks in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz-60Hz, 1.5mm displacement, 60-2000Hz at 98.1m/s^2 , 30mins in 3 mutually perpendicular planes at 1oct/min
- Solderability: MIL-STD-202, Method 208, Category 3

Manufacturing Details

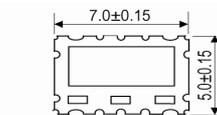
- Soldering: Suitable for Convection Reflow soldering, peak temperature 260°C for 10secs max
- Washing: Able to withstand aqueous washing

Ordering Information

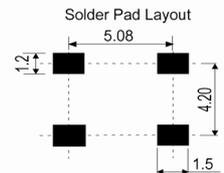
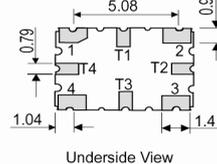
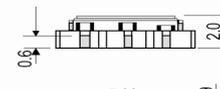
- Frequency*
- Model*
- Output
- Frequency Stability (over operating temperature range)
- Operating Temperature Range
- Supply Voltage
(*minimum required)
- Example
 40.0MHz CFPT-37
 $\text{HCMOS } \pm 0.9\text{ppm } -20$ to $70\text{C } 3.3\text{V}$



Outline (mm)



- Pad Connections
- 1.N/C
 - 2.GND
 - 3.Output
 - 4.+Vs
 - T1, T2, T3, T4 N/C



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