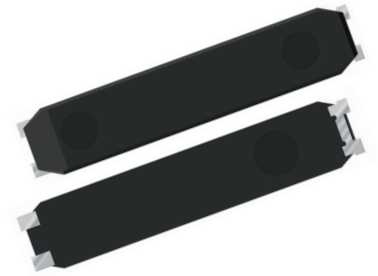


QTP7 Series

1.4x6.9 Plastic SMD Tuning Fork



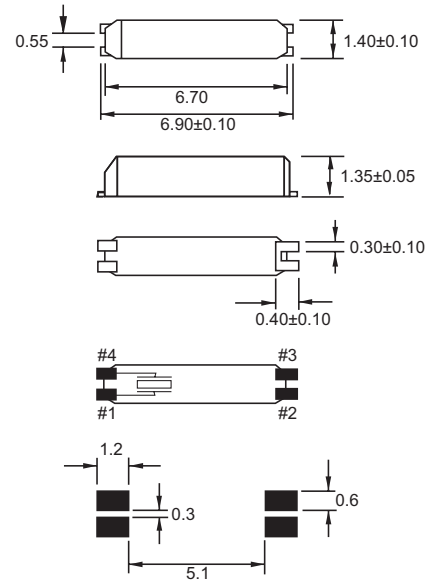
Features

- Most appropriate for high-density circuit board by the small surface mount type
- Embedded with heat resistant cylinder type crystal bring highly stable characteristics
- Suitable for small mobile telecommunication devices

General Specifications

Nominal Frequency	32.768 kHz
Frequency Tolerance at 25°C	±20ppm
Aging per Year	±3ppm max.
Turnover Temperature	25°C ±5°C
Temperature Coefficient	-0.035 ±0.008ppm/Δ °C ²
Temperature Range (Operating)	-40 to +85°C
Storage Temperature	-55 to +125°C
Equivalent Series Resistance (ESR)	65KΩ max.
Load Capacitance C _L	Standard 12.5pF
	Optional 7.0pF
Shunt Capacitance C ₀	0.8pF typ.
Motional Capacitance C ₁	3.0fF typ.
Drive Level	1μW max.
Insulation Resistance (MΩ)	500 at 100Vdc ±15Vdc
Quality Factor	70000 typ.
Capacitance Ratio	450 typ.
Resistance to Shock	±5ppm maximum offset from 75 cm drop test in all axes on to a hard surface.

Mechanical Dimensions

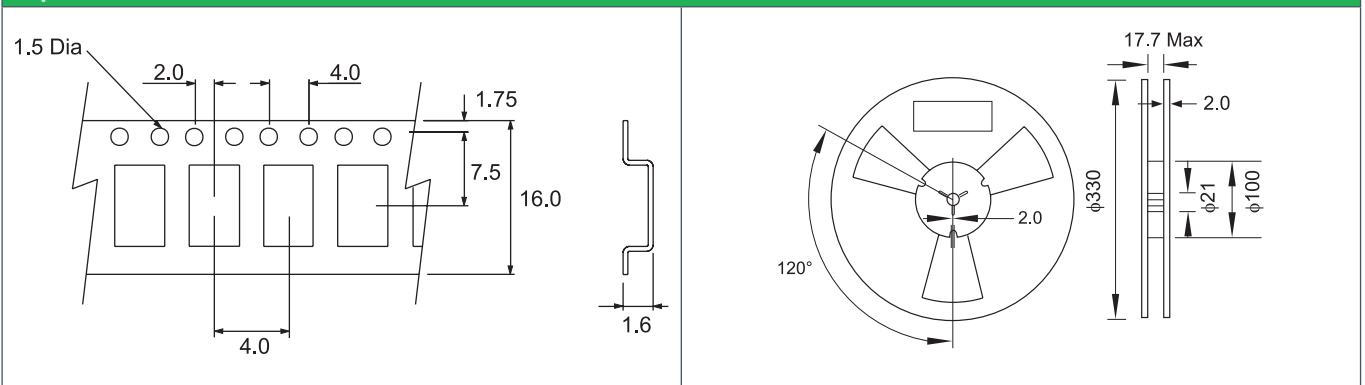


Pin Connection: #1 Crystal, #2 N/C, #3 N/C, #4 Crystal

Part Numbering Guide

Qantek Code	Package	Nominal Frequency (in kHz)	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Packaging
Q = Qantek	TP7 = 1.4x6.9 Plastic SMD	32.768	07 = 7pF 12 = 12.5pF	B = -40 to +85°C	20 = ±20ppm	R = 3000pcs Tape&Reel
Example: QTP732.76812B20R						bold letters = recommended standard specification

Tape and Reel Dimensions



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 info@qantek.com

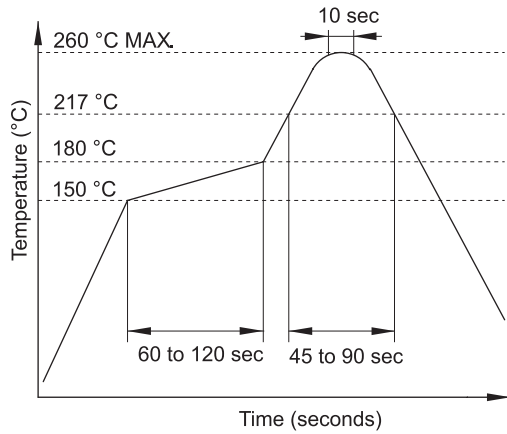
QTP7 Series

1.4x6.9 Plastic SMD Tuning Fork

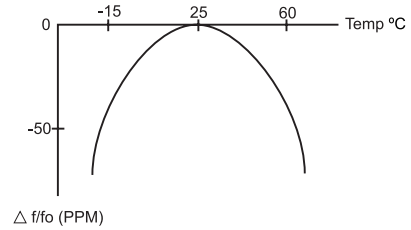
Marking Code Guide

Contains manufacturer code / lot code

Solder Reflow Profile



Frequency vs. Temperature Characteristics



To calculate the frequency stability the parabolic curvature constant (K) is needed.
For calculating the stability at 45°C:

1- Change in temperature (ΔT) is $(45-25) = +20^\circ\text{C}$

2- Change in frequency is $(-0.034 \times (\Delta^\circ\text{C})^2) = (-0.034 \times (20)^2) = -13.6\text{ppm}$

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[QCL9.83040F18B23B](#) [QX14T50B10.00000B50TT](#) [QX14T50B48.00000B50TT](#) [QX8T50B18.43200B50TT](#) [QCS22.1184F18B23M](#)
[QX14T50B18.43200B50TT](#) [QX8T50B1.843200B50TT](#) [QX14T50B7.372800B50TT](#) [QC5CB8.00000F18B23R](#) [QCL27.0000F18B23B](#)
[QC5A10.0000F12B12M](#) [QCL14.31818F18B23B](#) [QX14T50B4.000000B50TT](#) [QX14T50B4.096000B50TT](#) [QX14T50B24.00000B50TT](#)
[QX8T50B25.00000B50TT](#) [QX14T50B25.00000B50TT](#) [QX233A32.00000B15M](#) [QC5A12.0000F12B12M](#) [QCP914.31818F18B35R](#)
[QCS24.5760F18B23M](#) [QCS10.0000F18B23M](#) [QX8T50B8.000000B50TT](#) [QC3CA29.4912F18B23M](#) [QX8T50B20.00000B50TT](#)
[QCS3.68640F18B23M](#) [QX8T50B4.915200B50TT](#) [QX318A24.00000B15M](#) [QCS4.00000F18B23M](#) [QC6A8.00000F18B23M](#)
[QC5CA8.00000F12B23M](#) [QCS32.0000F18B23M](#) [QC1627.1200F08B12M](#) [QC5CA8.00000F18B23M](#) [QC7A32.0000F12B12M](#)
[QC7A19.6608F18B12M](#) [QC3224.0000F12B12M](#) [QCS4.91520F18B23M](#) [QC5A18.4320F12B12M](#) [QC5CA25.0000F12B23M](#)
[QCL24.5760F18B23B](#) [QX733A16.00000B15M](#) [QCS6.00000F18B23M](#) [QX733A32.00000B15M](#) [QC3CA12.2880F12B23M](#)
[QCS12.2880F18B23M](#) [QX733A25.00000B15M](#) [QC7A11.0592F12B12M](#) [QC7A6.00000F12B12M](#) [QC5A27.0000F18B12M](#)