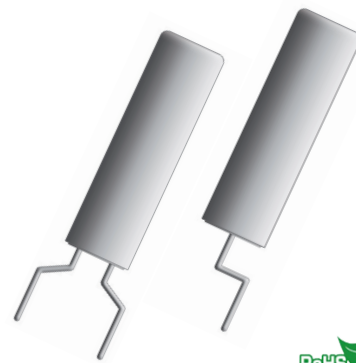


2.0x6.0 Metal Cylindrical SMD Tuning Fork



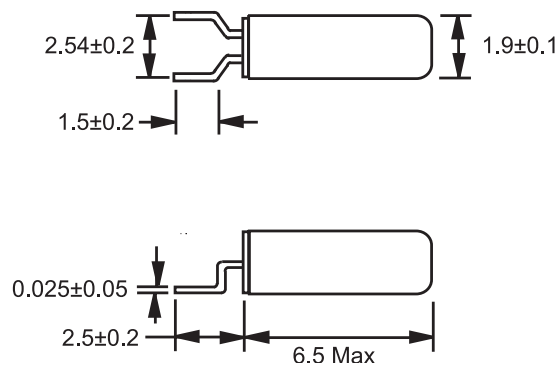
Features

- An industry-standard source of 32.768kHz clock signals
- Excellent shock resistance and environmental capability
- RoHS compliant by exemption
- A high build quality component at low cost

General Specifications

Nominal Frequency	32.768 kHz
Frequency Tolerance at 25°C	±20ppm
Temperature Coefficient	-0.034 ppm/Δ °C²
Temperature Range (Operating)	-40 to +85°C
Storage Temperature	-55 to +125°C
Load Capacitance C _L	6.0pF, 12.5pF
Shunt Capacitance C ₀	1pF typ.
Motional Capacitance C ₁	2.5fF typ.
Equivalent Series Resistance (ESR)	50KΩ max.
Drive Level	1μW max.
Aging per Year	±3ppm max.
Insulation Resistance (MΩ)	500 min.
Quality Factor	80000 typ.
Capacitance Ratio	400 typ.
Resistance to Shock	±5ppm maximum offset from 75cm drop test in all axes on to a hard surface
Turnover Temperature	25°C ±5°C

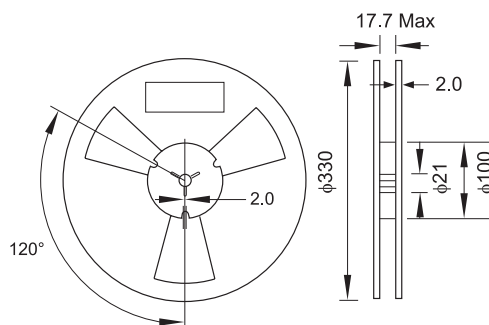
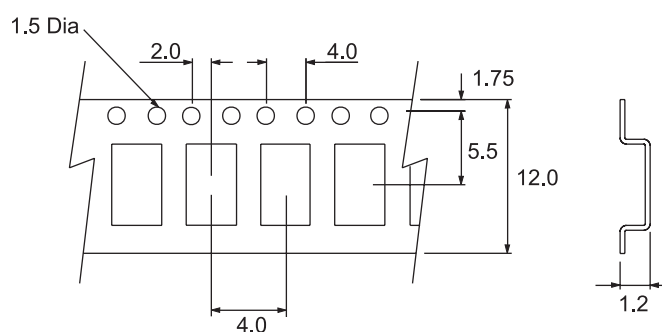
Mechanical Dimensions



Part Numbering Guide

Qantek Code	Package	Nominal Frequency (in kHz)	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Packaging
Q = Qantek	TM26S = 2.0x6.0 Metal SMD	32.768	06 = 6pF 12 = 12.5pF	B = -40 to +85°C	2 = ±20ppm	R = 3000pcs Tape&Reel
Example: QTM26S32.76812B2R				bold letters = recommended standard specification		

Tape and Reel Dimensions



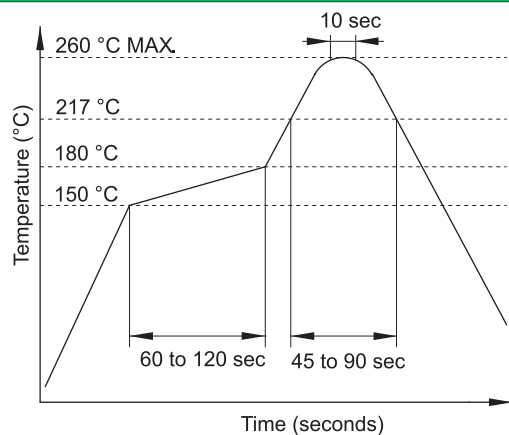
QTM26 Series

2.0x6.0 Cylindrical Package Tuning Fork

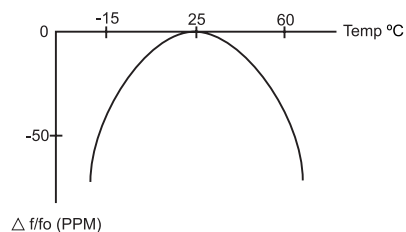
Marking Code Guide

Contains manufacturer code / lot code

Solder Reflow Profile



Frequency vs. Temperature Characteristics



To calculate the frequency stability the parabolic curvature constant (K) is needed.

Example: Calculating the stability at 45 °C

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

2- Change in frequency is $(-0.035 \times (\Delta^\circ\text{C})^2) = (-0.035 \times (20)^2) = -13.6\text{ppm}$

