QTM26S Series

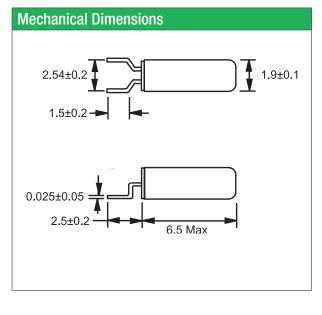
2.0x6.0 Metal Cylindrical SMD Tuning Fork

Features

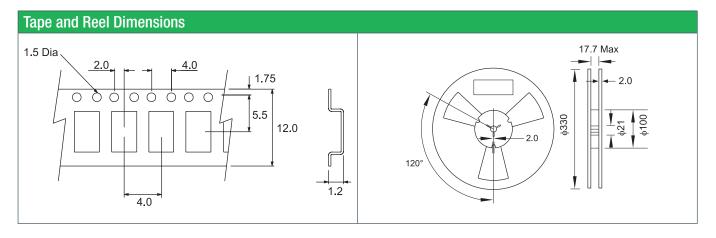
- An industry-standard source of 32.768kHz clock signals
- Excellent shock resistance and environmental capability
- RoHS compliant by exemption
- A high build quality component at low cost



General Specifications			
Nominal Frequency	32.768 kHz		
Frequency Tolerance at 25°C	±20ppm		
Temperature Coefficient	-0.034 ppm/∆ °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	1.1pF typ.		
Motional Capacitance C ₁	2.3fF typ.		
Equivalent Series Resistance (ESR)	50KΩ max.		
Drive Level	1μW max.		
Aging per Year	±5ppm max.		
Insulation Resistance (MΩ)	500 min.		
Quality Factor	60000 typ.		
Capacitance Ratio	450 typ.		
Resistance to Shock	±5ppm maximum offset from 75cm drop test in all axes on to a hard surface		
Turnover Temperatur	25°C ±5°C		



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								



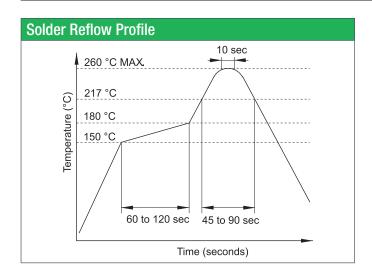


QANTEK Technology Corporation

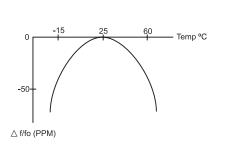
Phone: +1 877-227-0440 (tollfree) Fax: +1 877-227-0440 (tollfree)

Marking Code Guide

Contains manufacturer code / lot code



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 (Δ T) is (45-25) = +20°C 2- Change in frequency is (-0.035 x (Δ °C)²) = (-0.035 x (20)²) = -13.6ppm

