QTP8 Series

3.8x8.0 Plastic SMD Tuning Fork

Features

- Excellent environmental and heat resistance plastic package with reflow capability
- Extended temperature -40 to +85°C for industrial applications

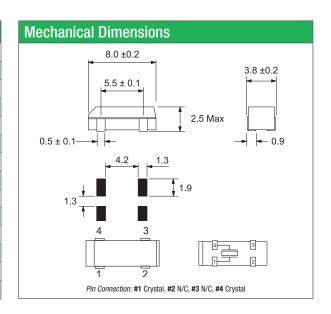
Applications

- Wide range in communication and measuring equipment
- Commercial and Industrial applications
- Wireless communications
- Time of day Applications

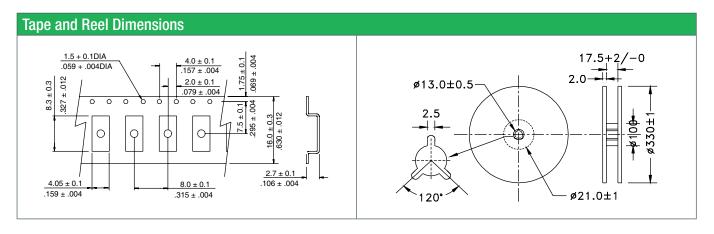




General Specifications				
Nominal Frequency	32.768 kHz			
Frequency Tolerance at 25°C	±20ppm			
Temperature Coefficient	-0.035 ±0.008ppm/∆ °C²			
Temperature Range (Operating)	-40 to +85°C			
Storage Temperature	-55 to +125°C			
Load Capacitance C _L	6pF, 10pF, 12.5pF			
Shunt Capacitance C ₀	1.5pF typ.			
Motional Capacitance C ₁	3.0fF typ.			
Equivalent Series Resistance (ESR)	50KΩ max.			
Drive Level	1μW max.			
Aging per Year	±3ppm max.			
Insulation Resistance (M Ω)	500 at 100Vdc ±15Vdc			
Quality Factor	70000 typ.			
Capacitance Ratio	450 typ.			



Part Numbering Guide							
Qantek Code	Package	Nominal Frequency (in kHz)	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Packaging	
Q = Qantek	TP8 = 3.8x8.0 Plastic SMD	32.768	06 = 6pF 10 = 10pF 12 = 12.5pF	B = -40 to +85°C	5 = ±5ppm 10 = ±10ppm 15 = ±15ppm 20 = ±20ppm	R = 3000pcs Tape&Reel	
Example: QTP832.76812B20R bold letters = recommended standard specification							



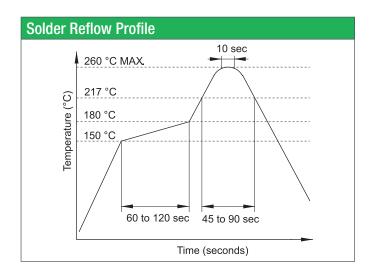


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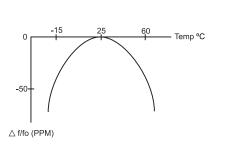
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Marking Code Guide

Contains frequency



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 (Δ T) is (45-25) = +20°C 2- Change in frequency is (-0.034 x (Δ °C)²) = (-0.035 x (20)² = -14.0ppm

