QTTP8 Series

3.8x8.7 Plastic SMD Tuning Fork



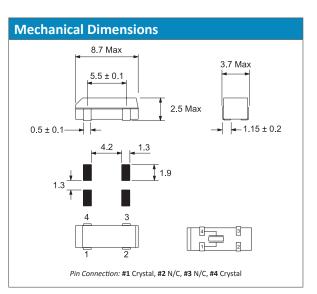
Features

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

Applications

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

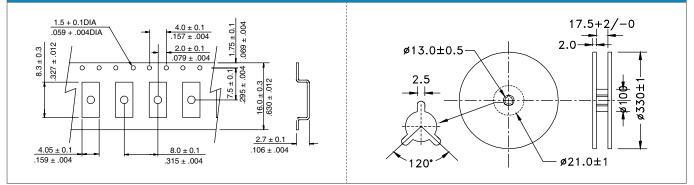
General Specifications						
Nominal Frequency	32.768 kHz					
Frenquency Tolerance at 25°C	±20ppm					
Temperature Coefficient	-0.035 ±0.008ppm/∆ ºC²					
Temperature Range (Operating)	-40 to +85ºC					
Storage Temperature	-55 to +125°C					
Load Capacitance C_L	6pF, 12.5pF					
Shunt Capacitance C 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 (MΩ)	500 at 100Vdc ±15Vdc					
Quality Factor	70000 typ.					
Capacitance Ratio	450 typ.					



Part Numbering Guide

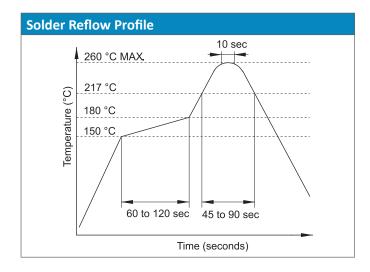
QT Code	Package	Nominal Frequency (in kHz)	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Packaging
QT = Quarz- technik	TP8 = 3.8x8.7 Plastic SMD	32.768	06 = 6pF 12 = 12.5pF	B = -40 to +85°C	10 = ±10ppm 15 = ±15ppm 20 = ±20ppm	R = 3000pcs Tape&Reel
Example: QTP83	Example: QTP832.76812B20R bold letters = recommended standard specification					

Tape and Reel Dimensions

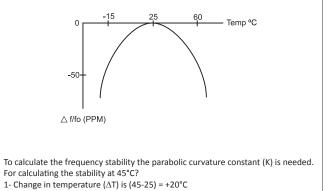


Marking Code Guide

Contains manufacturer code / lot code



Frequency vs. Temperature Characteristics



2- Change in frequency is (-0.034 x (Δ° C)²) = (-0.035 x (20)² = -13.6ppm

