Features

- Low frequency in smallest size SMD
- Seam sealed ceramic package offers excellent environmental & heat resistance
- Extended temperature -40 to +85°C for industrial applications

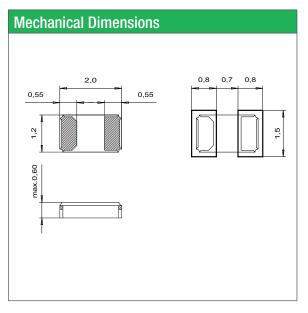
Applications Commercia

- Commercial and Industrial applications
- Wireless communications
- PDA and Smartphone
- Time of day applications

QTC2 Series



General Specifications				
Nominal Frequency	32.768kHz			
Frequency Tolerance at 25°C	±20ppm			
Temperature Coefficient	-0.034 \pm 0.008ppm/ Δ °C ²			
Temperature Range (Operating)	-40 to +85°C			
Storage Temperature	-55 to +125°C			
Load Capacitance C_L	6pF, 7pF, 9pF, 12.5pF			
Shunt Capacitance C ₀	1.2pF typ.			
Motional Capacitance C1	4.0fF typ.			
Equivalent Series Resistance (ESR)	70KΩ max.			
Drive Level	0.5µW 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	TC2 = 1.2x2.0 SMD Tuning Fork	32.768	06 = 6pF 07 = 7pF 09 = 9pF 12 = 12.5pF	B = -40 to +85°C	1 = ±10ppm 2 = ±20ppm	R = 3000pcs Tape&Reel	
Example: 0TC232 76812828 bold letters = recommended standard specification							

Tape and Reel Dimensions Ø 13 min. 8.4 4 ±0,1 0,315 ±0,05 ±0,1 +0,1 3,5 ±0,05 Ø1,5 + 1,75 ±0,05 0,254 ±0,02 2 ±0,05 Ø 61,5 6 2,23 \oplus \oplus ф \oplus 4 Æ Ø 178 -0,3 φ \square^{i} ┢ -0 ⊕ ₽ œ 4 ±0,1 0,83 ±0,05 1,43 ±0,05 0,061 Cover Tape ò Direction of feed All dimensions are in mm 60. 60° max. 13

Marking Code Guide

Contains manufacturer code / lot code



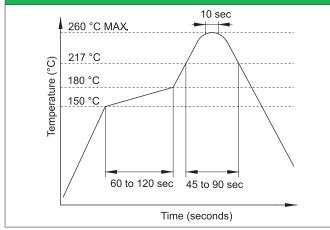
QANTEK Technology Corporation

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

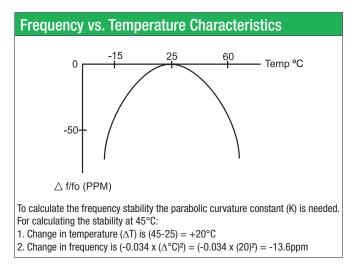
 Fax:
 +1 877-227-0440 (tollfree)

www.qantek.com info@qantek.com

Solder Reflow Profile



All specifications are subject to change without notice.





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

+1 877-227-0440 (tollfree)

www.gantek.com info@qantek.com