Features

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

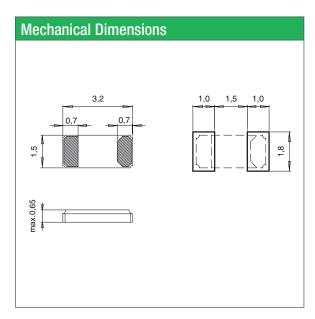
General Specifications

autoral opeontoationo			
Nominal Frequency	32.768kHz		
Frenquency Tolerance at 25°C	±20ppm		
Temperature Coefficient	-0.034 ± 0.008ppm/∆ °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	1.7pF typ.		
Motional Capacitance C ₁	3.0fF typ.		
Equivalent Series Resistance (ESR)	50KΩ typ. / 70KΩ 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.		

Applications

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





Part Numbering Guide

Qantek Code	Package	Nominal Frequency (in kHz)	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Packaging	
Q = Qantek	TC3 = 1.5x3.2 SMD Tuning Fork	32.768	06 = 6pF 07 = 7pF 09 = 9pF 12 = 12.5pF	B = -40 to +85°C	1 = ±10ppm 2 = ±20ppm 3 = ±30ppm	R = 3000pcs Tape&Reel	
vample: 0TC332	76010000				hold lattors - recomm	ended standard specificatio	

Example: Q10332.76812B2R

Tape and Reel Dimensions 1.5 Dia 13.2 Max 4.0 2.0 1.75 - 1.2 \bigcirc ð \bigcirc Ο \bigcirc \bigcirc \bigcirc Ó 5.5 φ180 12.0 2.0 120° 1 1 4.0



QANTEK Technology Corporation

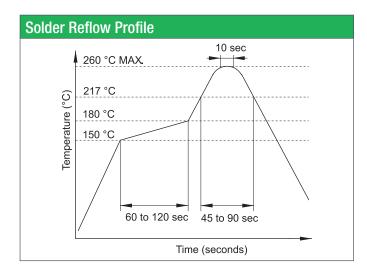
 Phone:
 +1 877-227-0440 (tollfree)

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

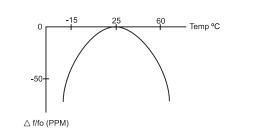
www.qantek.com info@qantek.com

Marking Code Guide

Contains manufacturer code / lot code



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 $(-0.034 \text{ x} (\Delta^{\circ}\text{C})^2) = (-0.035 \text{ x} (20)^2 = -13.6 \text{ppm}$



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QCL9.83040F18B23B QX14T50B10.0000B50TT QX14T50B48.0000B50TT QX8T50B18.43200B50TT QCS22.1184F18B23M QX14T50B18.43200B50TT QX8T50B1.843200B50TT QX14T50B7.372800B50TT QC5CB8.00000F18B23R QCL27.0000F18B23B QC5A10.0000F12B12M QCL14.31818F18B23B QX14T50B4.00000B50TT QX14T50B4.096000B50TT QX14T50B24.00000B50TT QX8T50B25.00000B50TT QX14T50B25.00000B50TT QX233A32.00000B15M QC5A12.0000F12B12M QCP914.31818F18B35R QCS24.5760F18B23M QCS10.0000F18B23M QX8T50B8.000000B50TT QC3CA29.4912F18B23M QX8T50B20.00000B50TT QCS3.68640F18B23M QX8T50B4.915200B50TT QX318A24.00000B15M QC5A4.00000F18B23M QC6A8.00000F18B23M QC5CA8.00000F12B23M QCS32.0000F18B23M QC1627.1200F08B12M QC5CA8.00000F18B23M QC7A32.0000F12B12M QC7A19.6608F18B12M QC3224.0000F12B12M QC54.91520F18B23M QC5A18.4320F12B12M QC5CA25.0000F12B23M QCL24.5760F18B23B QX733A16.00000B15M QCS6.00000F18B23M QX733A32.00000B15M QC3CA12.2880F12B23M QCS12.2880F18B23M QX733A25.00000B15M QC7A11.0592F12B12M QC7A6.00000F12B12M QC5A27.0000F18B12M