Features

- All ceramic epoxy sealed SMD package
- Low in height, suitable for thin equipment
- Tight tolerance and stability available

Applications

- High density applications
- Modem, communication and test equipment

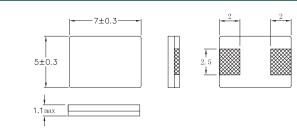


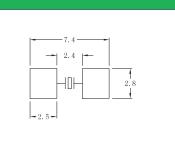
General Specifications						
Frequency Range	6.000 to 30.000MHz (Fundamental)					
Frenquency Tolerance at 25°C	± 20 to ± 50 ppm (± 30 ppm standard)					
Frequency Stability over Temperature Range	See Stability vs. Temperature Table					
Storage Temperature	-55 to +125°C					
Aging per Year	±5ppm max.					
Load Capacitance CL	10 to 32pF and Series Resonance					
Shunt Capacitance C ₀	7.0pF max.					
Equivalent Series Resistance (ESR)	See ESR Table					
Drive Level	100µW typ. (500µW max)					
Insulation Resistance (M\Omega)	500 at 100Vdc ±15Vdc					

Equivalent Series Resistance (ESR)						
Frequency Range - MHz Ω max. Mode of Operation						
6.000 to 8.000	80	Fundamental				
8.000 to 30.000 60 Fundamental						

Frequency Stability vs. Temperature								
Operating Temperature	±20ppm	±30ppm	±50ppm					
-20 to +70°C	0	0	0					
-40 to +85°C	0	•	0					
			● standard ○ available					

Mechanical Dimensions





Part Numbering Guide								
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Packaging
Q = Qantek	C7CB = 5x7 2-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	S = Series 12 = 12pF 18 = 18pF 20 = 20pF etc.	A = -20 to +70°C B = -40 to +85°C	2 = ±20ppm 3 = ±30ppm 5 = ±50ppm	2 = ±20ppm 3 = ±30ppm 5 = ±50ppm	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel
Example: QC7CB12.0000F12B33R bold letters = recommended standard specification								



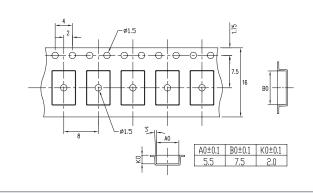
QANTEK Technology Corporation

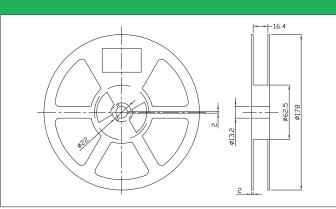
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Tape and Reel Dimensions



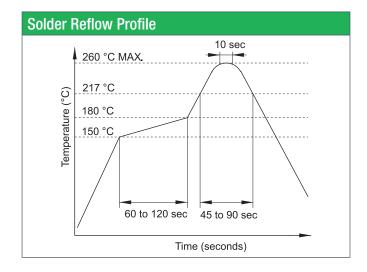


Marking Code Guide

Contains frequency, Qantek manufacturing code, production code (month and year) and load capacitance.

Month (Codes			Year	Year Codes				Load Capacitance Code in pF					
January	A	July	G	2010	0	2011	1	2012	2		pF	PN Code	pF	PN Co
February	В	August	Н	2013	3	2014	4	2015	5		12	А	20	F
March	С	September	1								18	В	22	G
April	D	October	J								8	С	30	Н
May	E	November	К								10	D	32	I
June	F	December	L								16	E	S	S

Example: First Line: 12.000 (Frequency) Second Line: QA1A (Qantek - January - 2011 - 12 pF)



Environmental Specifications					
Mechanical Shock	MIL-STD-202, Method 213, C				
Vibration	MIL-STD-202, Method 201 & 204				
Thermal Cycle	MIL-STD, Method 1010, B				
Gross Leak	MIL-STD-202, Method 112				
Fine Leak	MIL-STD-202, Method 112				

All specifications are subject to change without notice.



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