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



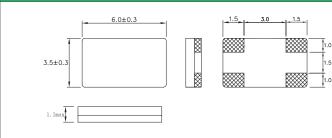


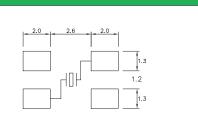
General Specifications					
Frequency Range	8.000 to 40.000MHz (Fundamental)				
Frenquency Tolerance at 25°C	± 20 to ± 50 ppm (± 30 ppm standard)				
Frequency Stability over Temperature Range	See Stability vs. Temperature Table				
Storage Temperature	-55 to +125°C				
Aging per Year	±5ppm max.				
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 (MΩ)	500 at 100Vdc ±15Vdc				

Equivalent Series Resistance (ESR)								
Frequency Range - MHz	Ω max.	Mode of Operation						
8.000 to 10.000	100	Fundamental						
10.000 to 12.000	80	Fundamental						
12.000 to 16.000	60	Fundamental						
16.000 to 40.000	30	Fundamental						

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

Mechanical Dimensions





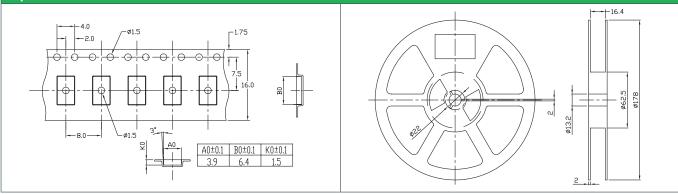
Part Numbering Guide											
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Packaging			
Q = Qantek	C6CA = 3.5x6.0 4-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	S = Series 12 = 12pF 18 = 18pF 20 = 20pF etc.	$A = -20 \text{ to } +70^{\circ}\text{C}$ $B = -40 \text{ to } +85^{\circ}\text{C}$ $C = -40 \text{ to } +105^{\circ}\text{C}$ $D = -40 \text{ to } +125^{\circ}\text{C}$	2 = ±20ppm 3 = ±30ppm 5 = ±50ppm	2 = ±20ppm 3 = ±30ppm 5 = ±50ppm	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel			
Example: QC6CA12.0000F12B33R bold letters = recommended standard specification											



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Tape and Reel Dimensions



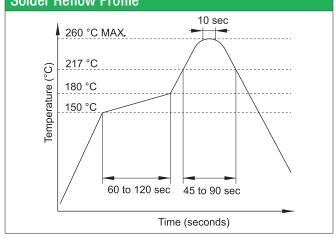
Marking Code Guide

Contains frequency, Qantek manufacturing code, production code (month and year) and load ca	pacitance.
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Month (Codes				Year Codes				Load Capacitance Code in pF						
January	A	July	G		2010	0	2011	1	2012	2	p	F	PN Code	pF	PN Code
February	В	August	Н		2013	3	2014	4	2015	5	1	2	А	20	F
March	С	September	1								1	8	В	22	G
April	D	October	J								8	}	С	30	Н
May	E	November	К								1	0	D	32	I
June	F	December	L								1	6	E	S	S
Fremeler, Firstline: 12.000 (Fremuner), Second Line: Old (Contols, Lenuer), 2011, 12.00															

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

Solder Reflow Profile



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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