Features

· Low cost alternative to common seam seal packages

Applications

- Computer peripherals
- Set-top box, TV sets
- RoHS compliant by exemption
- Office automation
- Audio & video



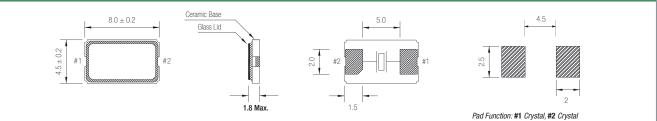
General Specifications						
Frequency Range		10.000 to 80.000MHz				
Mode of Oscillation	Fundamental	10.000 to 50.000MHz				
	Third Overtone	30.000 to 80.000MHz				
Frenquency Tolerance at 25°C	;	± 20 to ± 50 ppm (± 30 ppm standard)				
Frequency Stability over Temp	erature Range	See Stability vs. Temperature Table				
Storage Temperature		-55 to +125°C				
Aging per Year		±5ppm				
Load Capacitance C_L		8 to 32pF and Series Resonance				
Shunt Capacitance Co		5.0pF 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	Mode of Operation						
10.000 to 12.000	100	Fundamental					
12.000 to 14.000	60						
14.000 to 20.000	50						
20.000 to 50.000	40						
30.000 to 60.000	100	Third Overtone					
60.000 to 80.000	80						

Frequency Stability vs. Temperature ±20ppm **Operating Temperature** ±30ppm ±50ppm ±100ppm 0 0 -20 to +70°C 0 Ο -40 to +85°C 0 0 0

standard \bigcirc available

Mechanical Dimensions

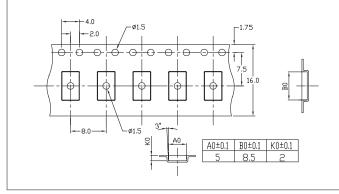


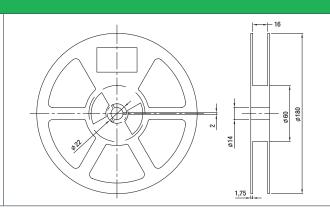
Part Numbering Guide

Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Tempe- rature Range	Frequency Tolerance	Frequency Stability	Packaging
Q = Qantek	C8GB = 4.5x8.0 2-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	S = Series 08 = 8pF 12 = 12pF 18 = 18pF 20 = 20pF etc.	A = -20 to +70°C B = -40 to +85°C	$2 = \pm 20$ ppm $3 = \pm 30$ ppm $5 = \pm 50$ ppm $0 = \pm 100$ ppm	$2 = \pm 20ppm$ $3 = \pm 30ppm$ $5 = \pm 50ppm$ $0 = \pm 100ppm$	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel
Example: QC8GB12.0000F12B33R bold letters = recommended standard specification								



Tape and Reel Dimensions



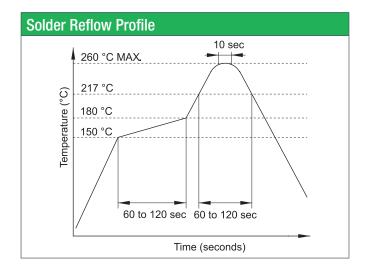


Marking Code Guide

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

odes			Year	Year Codes						Load Capacitance Code in pF				
А	July	G	2010	0	2011	1	2012	2		pF	PN Code	pF	PN Code	
В	August	Н	2013	3	2014	4	2015	5	١ſ	12	A	20	F	
С	September	1								18	В	22	G	
D	October	J								8	С	30	н	
E	November	К								10	D	32	I	
F	December	L								16	E	S	S	
	A B C D	AJulyBAugustCSeptemberDOctoberENovember	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyG2010BAugustH2013CSeptemberIDOctoberJENovemberK	AJulyG20100BAugustH20133CSeptemberIDOctoberJENovemberK	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyG2010020111BAugustH2013320144CSeptemberIDOctoberJENovemberK	A July G 2010 0 2011 1 2012 B August H 2013 3 2014 4 2015 C September I I Image: Compare the section of the section	A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 C September I D October J E November K	A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 C September I D October J E November K	AJulyG201002011120122pFBAugustH20133201442015512CSeptemberIDOctoberJENovemberK	AJulyG201002011120122BAugustH20133201442015512ACSeptemberIDOctoberJENovemberK	A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 12 A 20 C September I Image: Constraint of the sector of	

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.

