Features

- Low in height, suitable for thin equipment
- Ceramic package and metal lid assures high reliability
- Tight tolerance and stability available

Applications

- High density applications
- Modem, communication and test equipment
- PMCIA, wireless applications
- Automotive applications

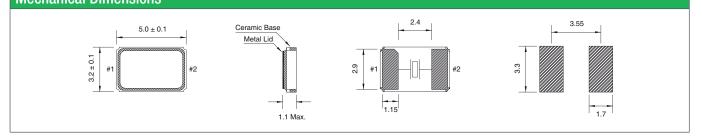


General Specifications							
Frequency Range		8.000 to 160.000MHz					
Mode of Oscillation	Fundamental	8.000 to 52.000MHz					
	Third Overtone	40.000 to 160.000MHz					
Frenquency Tolerance at 25°C		± 10 to ± 30 ppm (± 30 ppm standard)					
Frequency Stability over Temp	erature Range	See Stability vs. Temperature Table					
Storage Temperature		-55 to +125°C					
Aging per Year		±3ppm					
Load Capacitance C_L		10 to 32pF and Series Resonance					
Shunt Capacitance Co		7.0pF max.					
Equivalent Series Resistance (ESR)	See ESR Table					
Drive Level		100µW typ.					
Insulation Resistance (M Ω)		500 at 100Vdc ±15Vdc					

Equivalent Series Resistance (ESR)									
Frequency Range - MHz	Ω max.	Mode of Operation							
8.000 to 10.000	150	Fundamental							
10.100 to 12.000	90								
12.100 to 15.000	70								
15.100 to 30.000	50								
30.100 to 52.000	30								
40.000 to 52.000	100	Third Overtone							
52.100 to 80.000	100								
80.100 to 156.000	80								

Frequency Stability vs. Temperature								
Operating Temperature	±10ppm	±20ppm	±30ppm	±50ppm	±100ppm			
-20°C - +70°C	0	0	0	0	0			
-40°C - +85°C	0*	0	•	0	0			
-40°C - +105°C	-	-	-	0	0			
-40°C - +125°C	-	-	-	-	0			
*Operating Temperature -30 to +80°C					standard O availabl			

Mechanical Dimensions



Part Numbering Guide

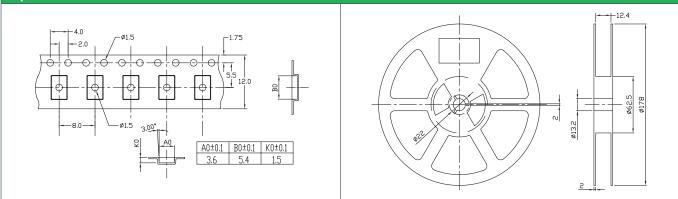
Part N	umbering Gu	iae							
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Tempe- rature Range	Frequency Tolerance	Frequency Stability	Automotive Indicator	Packaging
Q = Qantek	C5B = 3.2x5.0 2-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	$S = Series \\ 08 = 8pF \\ 12 = 12pF \\ 18 = 18pF \\ 20 = 20pF etc.$	A = -20 to +70°C B = -40 to +85°C C = -40 to +105°C D = -40 to +125°C	$1 = \pm 10ppm 2 = \pm 20ppm 3 = \pm 30ppm 5 = \pm 50ppm 0 = \pm 100ppm $	$1 = \pm 10ppm$ $2 = \pm 20ppm$ $3 = \pm 30ppm$ $5 = \pm 50ppm$ $0 = \pm 100ppm$	A = AEC-Q200	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel
Example: Q	C5B12.0000F12B33R						bold lette	ers = recommend	led standard specification



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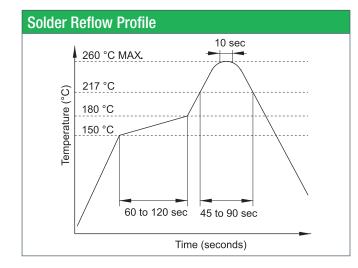
Tape and Reel Dimensions



Marking Code Guide

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

Month C	Codes			Year	Year Codes			Load Capacitance Code in pF						
January	A	July	G	2013	3	2014	4	2015	5	F	οF	PN Code	pF	PN Code
February	В	August	Н	2016	6	2017	7	2018	8	1	12	А	20	F
March	C	September	1							1	18	В	22	G
April	D	October	J								8	С	30	Н
Мау	E	November	К							1	10	D	32	I
June	F	December	L							1	16	E	S	S



ons
MIL-STD-202, Method 213, C
MIL-STD-202, Method 201 & 204
MIL-STD, Method 1010, B
MIL-STD-202, Method 112
MIL-STD-202, Method 112

All specifications are subject to change without notice.



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