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

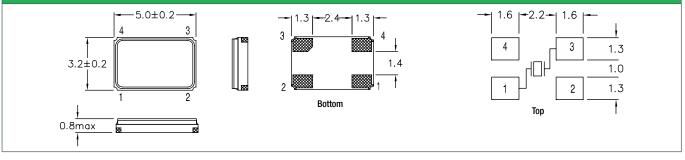


General Specification	ons					
Frequency Range		8.000 to 160.000MHz				
Mode of Oscillation	Fundamental	8.000 to 52.000MHz				
	Third Overtone	40.000 to 160.000MHz				
Frenquency Tolerance at 25°C		± 10 to ± 30 ppm (± 30 ppm standard)				
Frequency Stability over Temp	erature Range	See Stability vs. Temperature Table				
Storage Temperature		-55 to +125°C				
Aging per Year		±3ppm max.				
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 max.				
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	100	Fundamental					
10.100 to 15.000	80						
15.100 to 25.000	50						
25.100 to 30.000	40						
30.100 to 52.000	35						
40.000 to 52.000	100	Third Overtone					
52.100 to 80.000	100						
80.100 to 160.000	80						

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

Mechanical Dimensions



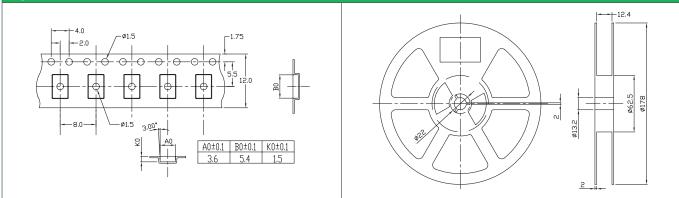
Part Numbering Guide

Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Tempe- rature Range	Frequency Tolerance	Frequency Stability	Automotive Indicator	Packaging
Q = Qantek	C5A = 3.2x5.0 4-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	$1 = \pm 10$ ppm $2 = \pm 20$ ppm $3 = \pm 30$ ppm $5 = \pm 50$ ppm $0 = \pm 100$ ppm	$1 = \pm 10$ ppm $2 = \pm 20$ ppm $3 = \pm 30$ ppm $5 = \pm 50$ ppm $0 = \pm 100$ ppm	A = AEC-Q200	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel
Example: Q	C5A12.0000F12B33R						bold lette	ers = recommend	led standard specification



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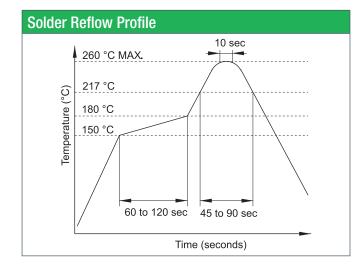
Tape and Reel Dimensions



Marking Code Guide

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

odes			Yea	Year Codes					Load Capacitance Code in pF			
A	July	G	2013	3	2014	4	2015	5	pF	PN Code	pF	PN Code
В	August	Н	2016	6	2017	7	2018	8	12	Α	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	A July B August C September D October E November	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyG2013BAugustH2016CSeptemberIDOctoberJENovemberK	AJulyG20133BAugustH20166CSeptemberIDOctoberJENovemberK	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	A July G B August H C September I D October J E November K	A July G B August H C September I D October J E November K	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyGBAugustHCSeptemberIDOctoberJENovemberK



Environmental Specifications						
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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