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



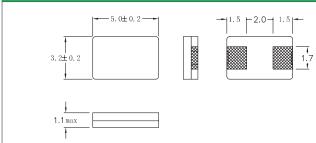


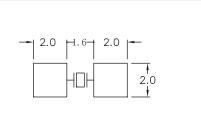
General Specifications	
Frequency Range	8.000 to 48.000MHz (Fundamental)
Frenquency Tolerance at 25°C	± 20 to ± 50 ppm (± 30 ppm standard)
Frequency Stability over Temperature Range	See Stability vs. Temperature Table
Storage Temperature	-55 to +125°C
Aging per Year	±5ppm max.
Load Capacitance C_L	10 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 48.000	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	C5CB = 3.2x5.0 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: QC5CB12.0000F12B33R bold letters = recommended standard specification									



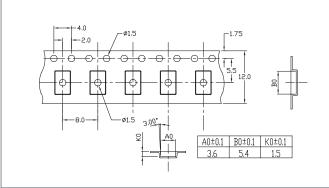
QANTEK Technology Corporation

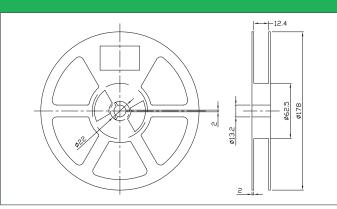
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Tape and Reel Dimensions



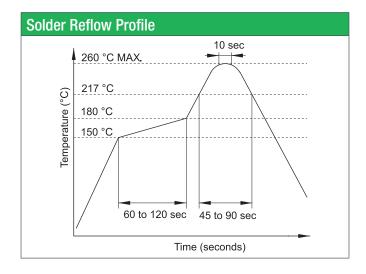


Marking Code Guide

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

Codes			Y	Year Codes					Load Capacitance Code in pF					
A	July	G	2	010	0	2011	1	2012	2		pF	PN Code	pF	PN Code
В	August	Н	2	013	3	2014	4	2015	5		12	А	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	AJulyG2BAugustH2CSeptemberIDOctoberJENovemberK	AJulyG2010BAugustH2013CSeptemberIDOctoberJENovemberK	AJulyG20100BAugustH20133CSeptemberIDOctoberJENovemberK	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	A July G 2010 0 2011 1 2012 B August H 2013 3 2014 4 2015 C September I Image: Constraint of the second seco	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	A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 12 C September I Image: Constraint of the second sec	A July G 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 12 A C September I Image: Constraint of the sector of the	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.



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