QC6CB Series

3.5x6.0 2-Pad SMD All Ceramic Crystal Unit

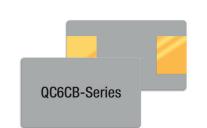


Features

- 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

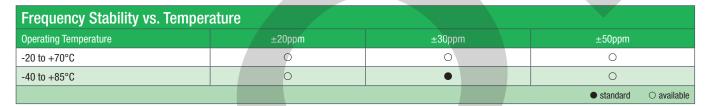


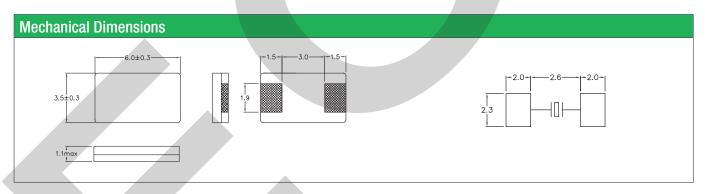




General Specifications	
Frequency Range	8.000 to 40.000MHz (Fundamental)
Frequency Tolerance at 25°C	±20 to ±50ppm (±30ppm standard)
Frequency Stability over Temperature Range	See Stability vs. Temperature Table
Storage Temperature	-55 to +125°C
Aging per Year	±5ppm max.
Load Capacitance C _L	10 to 32pF 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 (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		
10.000 to 12.000	80	Fundamental		
12.000 to 16.000	60	Fundamental		
16.000 to 40.000	30	Fundamental		



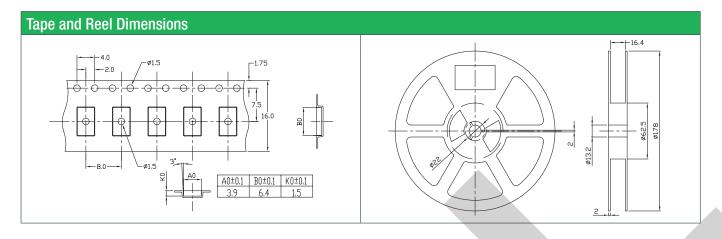


Part Numbering Guide								
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Packaging
Q = Qantek	C6CB = 3.5x6.0 2-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	S = Series 12 = 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: QC6CB12.0000F12B33R bold letters = recommended standard specification								



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Marking Code Guide

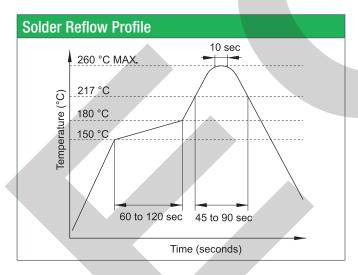
Contains frequency, Qantek manufacturing code, production code (month and year) and load capacitance.

Month Codes				
January	Α	July	G	
February	В	August	Н	
March	С	September	1	
April	D	October	J	
May	Е	November	K	
June	F	December	L	

Year	Codes	;			
2010	0	2011	1	2012	2
2013	3	2014	4	2015	5

Load Capacitance Code in pF					
pF	PN Code	pF	PN Code		
12	A	20	F		
18	В	22	G		
8	С	30	Н		
10	D	32	I		
16	E	S	S		

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.

