QC5CA Series

3.2x5.0 4-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



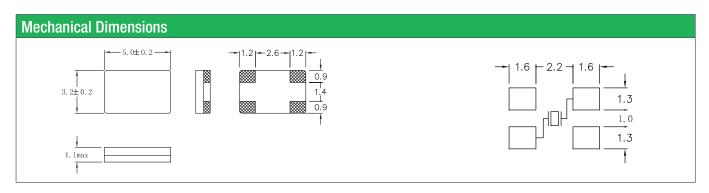




General Specifications	
Frequency Range	8.000 to 48.000MHz (Fundamental)
Frenquency Tolerance at 25°C	±20 to ±50ppm (±30ppm standard)
Frequency Stability over Temperature Range	See Stability vs. Temperature Table
Storage Temperature	-55 to +125°C
Aging per Year	±5ppm max.
Load Capacitance C _L	10 to 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 48.000	30	Fundamental		

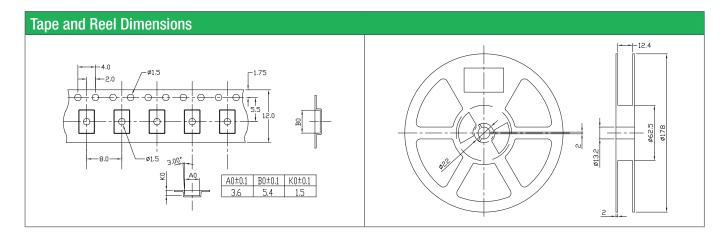
Frequency Stability vs. Temperature					
Operating Temperature	±20ppm	±30ppm	±50ppm		
-20 to +70°C	0	0	0		
-40 to +85°C	0	•	0		
			● standard ○ available		



Part No	Part Numbering Guide							
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Packaging
Q = Qantek	C5CA = 3.2x5.0 4-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: QC5CA12.0000F12B33R bold letters = recommended standard specification								



Phone: +1 877-227-0440 (tollfree) +1 877-227-0440 (tollfree)



Marking Code Guide

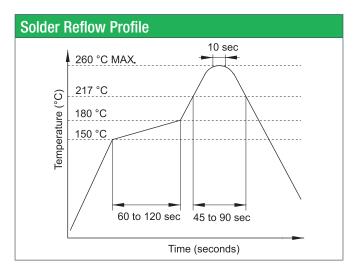
Contains frequency, Qantek manufacturing code, production code (month and year) and load capacitance.

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	Α	20	F		
18	В	22	G		
8	С	30	Н		
10	D	32	I		
16	Е	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.



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QCL9.83040F18B23B QX14T50B10.00000B50TT QX14T50B48.00000B50TT QX8T50B18.43200B50TT QCS22.1184F18B23M QX14T50B18.43200B50TT QX8T50B1.843200B50TT QX14T50B7.372800B50TT QC5CB8.00000F18B23R QCL27.0000F18B23B QC5A10.0000F12B12M QCL14.31818F18B23B QX14T50B4.000000B50TT QX14T50B4.096000B50TT QX14T50B24.00000B50TT QX8T50B25.00000B50TT QX14T50B25.00000B50TT QX233A32.00000B15M QC5A12.0000F12B12M QCP914.31818F18B35R QCS24.5760F18B23M QCS10.0000F18B23M QX8T50B8.000000B50TT QC3CA29.4912F18B23M QX8T50B20.00000B50TT QCS3.68640F18B23M QX8T50B4.915200B50TT QX318A24.00000B15M QCS4.00000F18B23M QC6A8.00000F18B23M QCS32.0000F18B23M QC1627.1200F08B12M QC5CA8.00000F18B23M QC7A32.0000F12B12M QC7A19.6608F18B12M QC3224.0000F12B12M QCS4.91520F18B23M QC5A18.4320F12B12M QC5CA25.0000F12B23M QCS12.2880F18B23B QX733A16.00000B15M QCS6.00000F18B23M QX733A32.00000B15M QC3CA12.2880F12B23M QCS12.2880F18B23M QX733A25.00000B15M QC7A11.0592F12B12M QC7A6.00000F12B12M QC5A27.0000F18B12M QCS12.2880F18B23M QX733A25.00000B15M QC7A11.0592F12B12M QC7A6.00000F12B12M QC5A27.0000F18B12M