QC6A Series

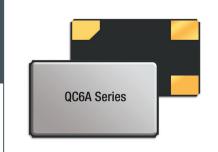
3.5x6.0 4-Pad SMD Quartz Crystal Unit

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

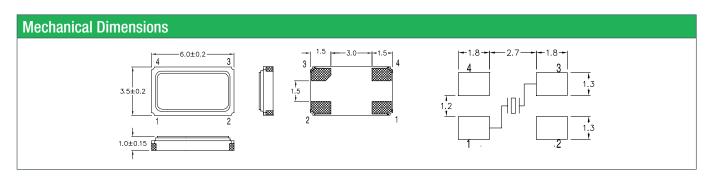




General Specifications				
Frequency Range		8.000 to 160.000MHz		
Mode of Oscillation Fundamental		8.000 to 40.000MHz		
	Third Overtone	40.100 to 160.000MHz		
Frenquency Tolerance at 25°C		±10 to ±30ppm (±30ppm standard)		
Frequency Stability over Temp	erature Range	See Stability vs. Temperature Table		
Storage Temperature		-55 to +125°C		
Aging per Year		±3ppm max.		
Load Capacitance C _L		10 to 32pF and Series Resonance		
Shunt Capacitance C ₀		7.0pF max.		
Equivalent Series Resistance (ESR)		See ESR Table		
Drive Level		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 12.000	80	Fundamental			
12.100 to 16.000	60				
16.100 to 40.000	40				
40.100 to 160.000	70	Third Overtone			

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

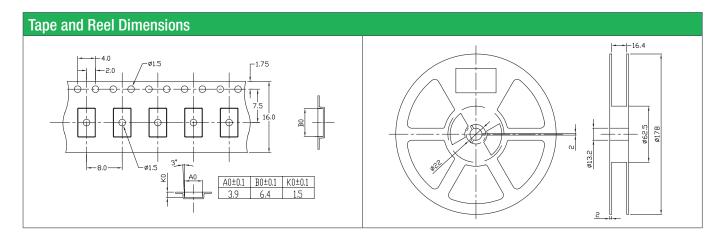


Part N	Part Numbering Guide								
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capaci- tance	Operating Tem- perature Range	Frequency Tolerance	Frequency Stability	Automotive Indicator	Packaging
Q = Qantek	C6A = 3.5x6.0 4-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	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 = ±10ppm 2 = ±20ppm 3 = ±30ppm 5 = ±50ppm 0 = ±100ppm	1 = ±10ppm 2 = ±20ppm 3 = ±30ppm 5 = ±50ppm 0 = ±100ppm	A = AEC-Q200	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel
Example: Q	Example: QC6A12.0000F12B33R bold letters = recommended standard specification					ed standard specification			



QANTEK Technology Corporation

Phone: +1 877-227-0440 (tollfree) www.qantek.com Fax: +1 877-227-0440 (tollfree) info@qantek.com



Marking Code Guide

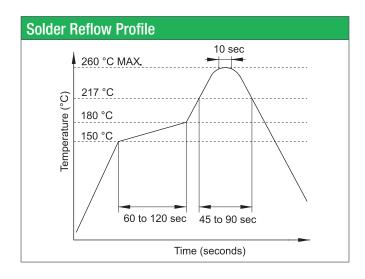
Contains frequency, Qantek manufacturing code, production code (month and year) and load capacitance.

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						
2013	3	2014	4	2015	5	
2016	6	2017	7	2018	8	
2019	9	2020	0	2021	1	

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: QA5A (Qantek - January - 2015 - 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			

 $\ensuremath{\mathsf{All}}$ specifications are subject to change without notice.



Phone: +1 877-227-0440 (tollfree) www.qantek.com Fax: +1 877-227-0440 (tollfree) info@qantek.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for quantek manufacturer:

Other Similar products are found below:

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