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

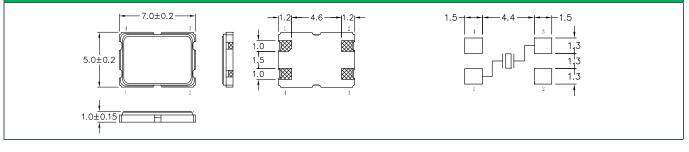


General Specifications							
Frequency Range		6.000 to 150.000MHz					
Mode of Oscillation	Fundamental	6.000 to 48.000MHz					
	Third Overtone	40.000 to 150.000MHz					
Frenquency Tolerance at 25°C		± 10 to ± 30 ppm (± 30 ppm standard)					
Frequency Stability over Temp	erature Range	See Stability vs. 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 typ.					
Insulation Resistance (M Ω)		500 at 100Vdc ±15Vdc					

Equivalent Series Resistance (ESR)								
Frequency Range - MHz	Ω max.	Mode of Operation						
6.000 to 10.000	110	Fundamental						
10.100 to 12.000	60							
12.100 to 20.000	45							
20.100 to 48.000	30							
40.000 to 150.000	60	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 • • standard • available							

Mechanical Dimensions



Part Numbering Guide

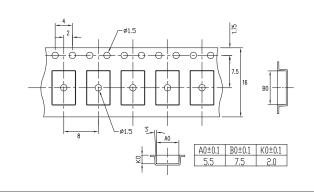
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Automotive Stability Indicator		Packaging	
Q = Qantek	C7A = 5x7 4-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	S = Series 08 = 8pF 12 = 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: QC7A12.0000F12B33R bold letters = recommended standard specification										

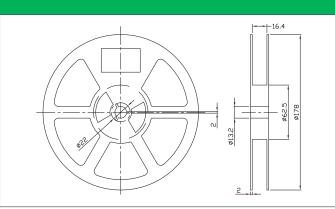


QANTEK Technology Corporation

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

Tape and Reel Dimensions



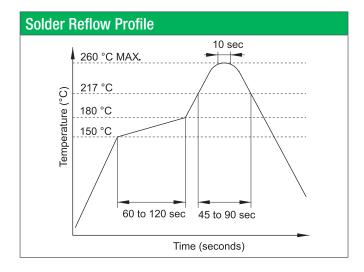


Marking Code Guide

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

Codes			Year	Code	S				Load C	apacitanc	e Code i	n
A	July	G	2010	0	2011	1	2012	2	pF	PN Code	pF	
В	August	Н	2013	3	2014	4	2015	5	12	A	20	Γ
С	September	1							18	В	22	Γ
D	October	J							8	С	30	Γ
E	November	К							10	D	32	
F	December	L							16	E	S	Ī
	A B C D E	AJulyBAugustCSeptemberDOctoberENovember	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	AJulyG2010BAugustH2013CSeptemberIDOctoberJENovemberK	AJulyGBAugustHCSeptemberIDOctoberJENovemberK	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 2010 0 2011 1 2012 2 B August H 2013 3 2014 4 2015 5 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: September July September July September	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						
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.



QANTEK Technology Corporation

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

www.qantek.com info@qantek.com

pF PN Code F G H I S

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for qantek manufacturer:

Other Similar products are found below :

QCL9.83040F18B23B QX14T50B10.0000B50TT QX14T50B48.0000B50TT QX8T50B18.43200B50TT QCS22.1184F18B23M QX14T50B18.43200B50TT QX8T50B1.843200B50TT QX14T50B7.372800B50TT QC5CB8.00000F18B23R QCL27.0000F18B23B QC5A10.0000F12B12M QCL14.31818F18B23B QX14T50B4.00000B50TT 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 QC5A4.00000F18B23M QC6A8.00000F18B23M QC5CA8.00000F12B23M QCS32.0000F18B23M QC1627.1200F08B12M QC5CA8.00000F18B23M QC7A32.0000F12B12M QC7A19.6608F18B12M QC3224.0000F12B12M QC54.91520F18B23M QC5A18.4320F12B12M QC5CA25.0000F12B23M QCL24.5760F18B23B QX733A16.00000B15M QCS6.00000F18B23M QX733A32.00000B15M QC3CA12.2880F12B23M QCS12.2880F18B23M QX733A25.00000B15M QC7A11.0592F12B12M QC7A6.00000F12B12M QC5A27.0000F18B12M