Features

- All-purpose surface-mount crystal
- Four pad land pattern compatible with common plastic molded designs

Applications

- Computers, modems and communications
- Clock applications
- Microprocessors

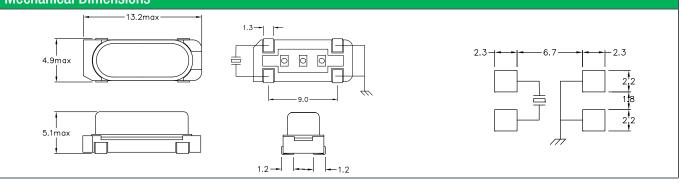


General Specification	ons						
Frequency Range		3.200 to 70.000MHz					
Mode of Oscillation	Fundamental	3.200 to 32.768MHz					
	Third Overtone	24.576 to 70.000MHz					
Frenquency Tolerance at 25°C	;	± 10 to ± 30 ppm (± 30 ppm standard)					
Frequency Stability over Temperature Range		See Stability vs. Temperatur Table					
Storage Temperature		-55 to +125°C					
Aging per Year		±3ppm max.					
Load Capacticance CL		10 to 32pF and Series Resonance					
Shunt Capacticance C ₀		7.0pF					
Equivalent Series Resistance (ESR)		See ESR Table					
Drive Level		1.0mW max.					
Insulation Resistance (MΩ)		500 at 100Vdc ±15Vdc					

Equivalent Series Resistance (ESR)								
Frequency Range - MHz	Ω max.	Mode of Operation						
3.200 to 3.500	300	Fundamental						
3.510 to 3.999	200							
4.000 to 5.999	120							
6.000 to 7.999	80							
8.000 to 9.999	60							
10.000 to 15.999	50							
16.000 to 32.768	40							
24.576 to 70.000	80	Fundamental - Third Overtone						

Frequency Stability vs. Temperature **Operating Temperature** ±10ppm ±20ppm ±30ppm ±50ppm ±100ppm 0 -20 to +70°C Ο Ο \bigcirc Ο -40 to +85°C _ 0 0 0 standard \bigcirc available

Mechanical Dimensions



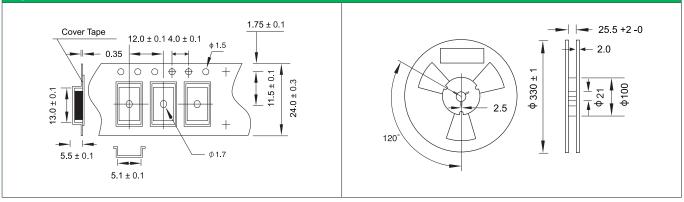
Part Numbering Guide

r ai t ivi	unibering du	luc							
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Automotive Indicator	Packaging
Q = Qantek	C4 = HC-49/U-S SMD 4-Pad	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	$1 = \pm 10$ ppm $2 = \pm 20$ ppm $3 = \pm 30$ ppm $5 = \pm 50$ ppm $0 = \pm 100$ ppm	$1 = \pm 10ppm 2 = \pm 20ppm 3 = \pm 30ppm 5 = \pm 50ppm 0 = \pm 100ppm $	not available	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel
Example: Q	C412.0000F18B35R					-	bold le	etters = recommend	led standard specification



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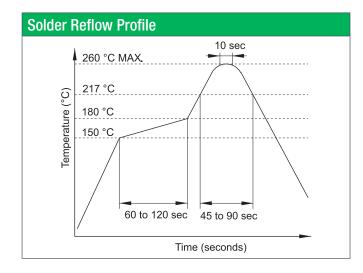
Tape and Reel Dimensions



Marking Code Guide

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

Month (Codes			Year	Code	S				Loa	id Ca	apacitanc	e Code iı	n pF
January	Α	July	G	2010	0	2011	1	2012	2	F	οF	PN Code	pF	PN Cod
February	В	August	Н	2013	3	2014	4	2015	5	1	2	A	20	F
March	С	September	1							1	8	В	22	G
April	D	October	J								8	С	30	Н
Мау	E	November	К							1	0	D	32	I
June	F	December	L							1	6	E	S	S



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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