QCL Series HC-49/U-S (Short)

Features

- High reliability and Low Cost
- Tight stability and extended temperature
- Proven resistance welded metal package

Applications

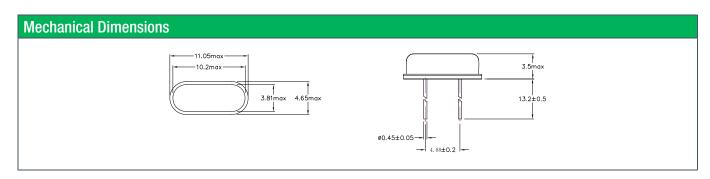
- Computers, modems and communications
- Microprocessors



General Specifications				
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 ±30ppm (±30ppm standard)		
Frequency Stability over Temperature Range		See Stability vs. Temperature Table		
Storage Temperature		-55 to +125°C		
Aging per Year		±3ppm max.		
Load Capacticance C _L		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 (M Ω)		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				

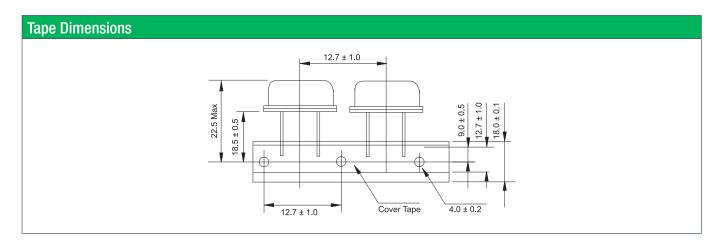
Frequency Stability vs. Temperature					
Operating Temperature	±10ppm	±20ppm	±30ppm	±50ppm	±100ppm
-20 to +70°C	0	0	0	0	0
-40 to +85°C	O*	0	0	•	0
*Operating Temperature -30 to +85°C				•	standard O available



Part Nu	mbering Gui	ide							
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Automotive Indicator	Packaging
Q = Qantek	CL = HC-49/U-S (Short)	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 = ±10ppm 2 = ±20ppm 3 = ±30ppm 5 = ±50ppm 0 = ±100ppm	1 = ±10ppm 2 = ±20ppm 3 = ±30ppm 5 = ±50ppm 0 = ±100ppm	not available	B = bulk R = 1000pcs Tape&Reel



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Marking Code Guide

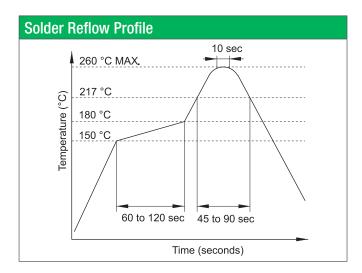
Contains frequency, Qantek manufacturing code, production code (month and year) and load capacitance.

Month Codes					
January	Α	July	G		
February	В	August	Н		
March	С	September	1		
April	D	October	J		
May	E	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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