QCS Series HC-49/U-S SMD 2-Pad

Features

- Suitable for RoHS reflow
- Available for tight stability & extended temperature range

Applications

- Computers, Modems, Microprocessors
- Wireless Applications

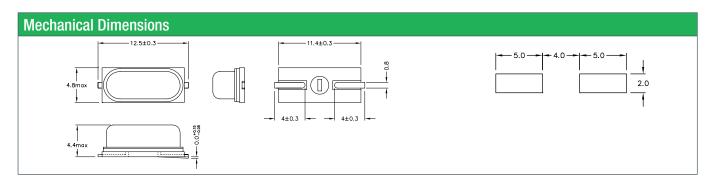




General Specifications					
Frequency Range		3.200 to 70.000MHz			
Mode of Oscillation	Fundamental	3.200 to 32.768MHz			
	Third Overtone	24.576 to 70.000MHz			
Frenquency Tolerance at 25°C		±10 to ±30ppm (±30ppm standard)			
Frequency Stability over Temperature Range		See Stability vs. Temperature Table			
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)					
Frequen	су І	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	

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

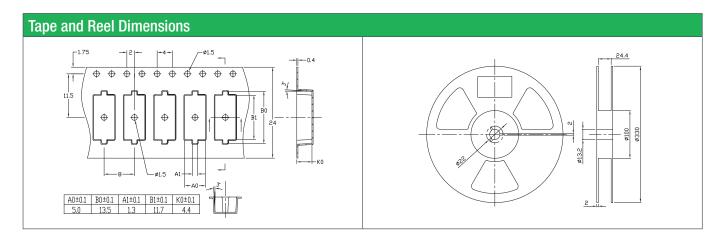


Part N	Part Numbering Guide								
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Automotive Indicator	Packaging
Q = Qantek	CS = HC-49/U-S SMD 2-Pad	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	S = Series 08 = 8pF 12 = 12pF 18 = 18pF 20 = 20pF etc.	A = -20 to +70°C B = -40 to +85°C 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	not available	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel
Example: Q	Example: QCS12.0000F18B35R bold letters = recommended standard specification								



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Marking Code Guide

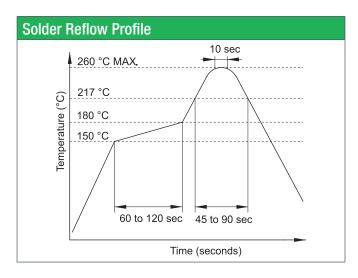
Contains frequency, Qantek manufacturing code, production code (month and year) and load capacitance.

Month Codes						
January	Α	July	G			
February	В	August	Н			
March	С	September	I			
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			

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

