

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
Frequency 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 Capacitance C_L	10 to 32pF and Series Resonance	
Shunt Capacitance C_0	7.0pF	
Equivalent Series Resistance (ESR)	See ESR Table	
Drive Level	1.0mW max.	
Insulation Resistance ($M\Omega$)	500 at 100Vdc ±15Vdc	

Equivalent Series Resistance (ESR)

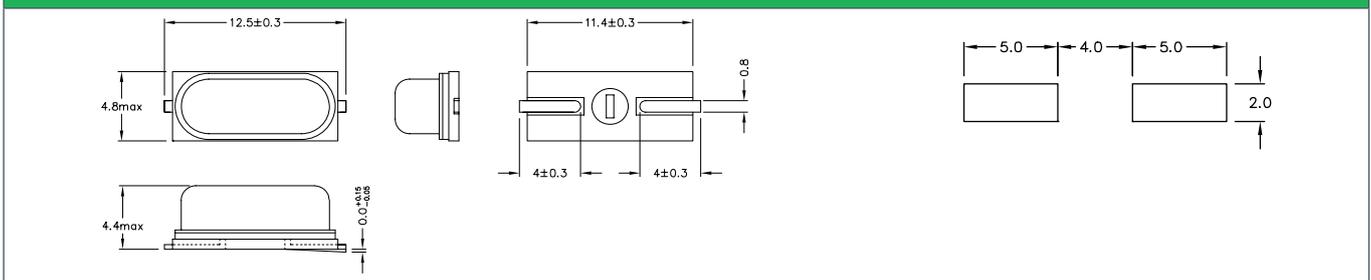
Frequency Range - MHz	Ω max.	Mode of Operation
3.200 to 3.500	300	Fundamental
3.510 to 3.999	200	
4.000 to 5.999	120	
6.000 to 7.999	80	
8.000 to 9.999	60	
10.000 to 15.999	50	
16.000 to 32.768	40	Fundamental - Third Overtone
24.576 to 70.000	80	

Frequency Stability vs. Temperature

Operating Temperature	±10ppm	±20ppm	±30ppm	±50ppm	±100ppm
-20 to +70°C	○	○	○	○	○
-40 to +85°C	○	○	○	●	○
-40 to +105°C				○	○
-40 to +125°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 Stability	Automotive Indicator	Packaging
Q = Qantek	CS = HC-49/U-S SMD 2-Pad	7 digits including the decimal point (f.i.e. 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: QCS12.0000F18B35R

bold letters = recommended standard specification



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