

QEHC49-GW

HC49 Gull Wing Crystal – SMD packaged Specification (Rev-A)

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June 27th, 2006

Electrical Characteristics

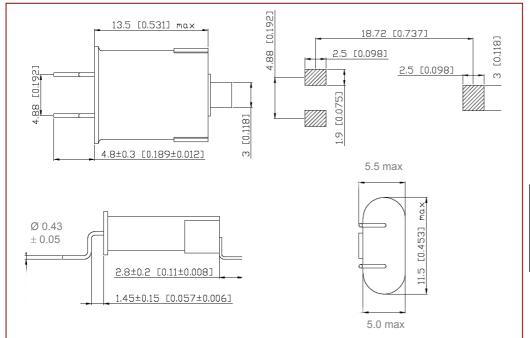
Electrical Parameters	Unit	Minimum	Typical	Maximum	Test conditions
Frequency range	MHz	1.8432		125	
Frequency Tolerance (at 25°C)	± ppm	10	30	50	Refer to Ordering Information
Temperature Stability	± ppm	10	30	50	Refer to Ordering Information
Operating Temperature Range	°C		-20/+70	-40/+85	Refer to Ordering Information
Storage temperature range	°C	-40		+85	
Shunt capacitance C ₀	рF			7.0	
Load capacitance	pF 10pF ~ 32pF or series		series	Refer to Ordering Information	
Drive level	μW		100	500	
Aging (First Year)	± ppm			5	Ref at 25°C
Insulator resistance	МΩ	500			At 100V _{DC}

Customized specification upon request

■ ESR vs. frequency range and Mode of vibration

Frequency range (MHz)	Mode of vibration	Max ESR (Ω)	Frequency range (MHz)	Mode of vibration	Max ESR (Ω)
1.8432 to 1.999	Fund.	650	6.000 to 7.9999	Fund.	50
2.000 to 2.999	Fund.	500	8.000 to 12.999	Fund.	35
3.000 to 3.499	Fund.	250	13.00 to 35.000	Fund.	25
3.500 to 3.999	Fund.	150	24.00 to 29.999	3rd	60
4.000 to 4.999	Fund.	100	30.00 to 79.999	3rd	40
5.000 to 5.999	Fund.	80	80.000 to 125.000	5th	90

Mechanical Characteristics



Marking for QEHC49-GW					
Line 1 VRSxxx (Temex code)					
Line 2	Frequency in MHz (6 digits)				
Line 3	YYWW - production code				

Mechanical conditions				
Vibration 10g, 10Hz to 2KHz				
	according to standard CEI			
	68-2-63			
Shocks	100g, 6ms according to			
	standard CEI 68-2-27			

Note 1 : QEHC49-GW is fully RoHS compliant.





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Ordering Information

Part numbering system								
QEHC49-GW	1	30	HQ	50	16	25.000MHZ		
\	V	\downarrow	V		\downarrow	\downarrow		
Package type	Vibration mode	Frequency tolerance	Operating temperature range	Frequency stability	Load Capacitance	Nominal Frequency (MHz)		
SMD Package QEHC49-GW: HC49U Gull Wing	1 = Fundamental 3 = 3 rd Overtone 5 = 5 th Overone	10=±10ppm 30=±30ppm 50=±30ppm	D=-40°C F= -30°C H=-20°C J=-10°C L=0°C M=+50°C N=+55°C O=+60°C Q=+70°C T=+85°C	10=±10ppm 30=±20ppm 50=±30ppm	10=10pF Please, enter the value of load capacitance	Please enter the nominal frequency		

Suggested Reflow Soldering Profile

