FREQUENCY



QEHC49-GW

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

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Frequency

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June 27th, 2006

Electrical Characteristics

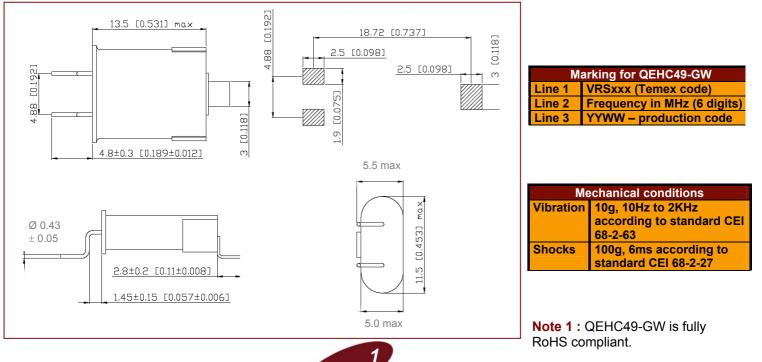
Electrical Parameters	Unit	Minimum	Typical	Maximum	Test conditions	
Frequency range	MHz	1.8432		125		
Frequency Tolerance (at 25°C)	± ppm	10	30	50	Refer to Ordering Information	
Temperature Stability	± ppm	10	30	50	Refer to Ordering Information	
Operating Temperature Range	°C		-20/+70	-40/+85	Refer to Ordering Information	
Storage temperature range	°C	-40		+85		
Shunt capacitance C ₀	рF			7.0		
Load capacitance	рF	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	MΩ	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



TEMEX reserves the right to modify herein specifications and informations at any time when necessary to provide optimum performance and cost.



Frequency

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Ordering Information

Part numbering system							
QEHC49-GW	1	30	HQ	50	16	25.000MHZ	
	\checkmark	↓	\downarrow	↓ ↓	\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

