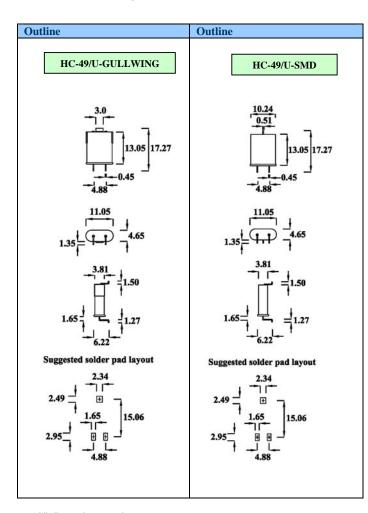


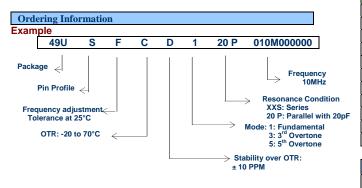
QUARTZ CRYSTAL- HC-49/U-GULL WING, HC-49/U-SMD

□ FEATURE

- All metal welded package
- Wide frequency range from 1.8432 MHz upto 150 MHz
- RoHS Compliant Standard



▲ All dimensions are in mm.



Frequency Range	1.8432 MHz to 150 MHz	
Frequency Adjustment Tolerance at 25° C	Select from table below	
Operating Temperature Range	Select from table below	
Frequency Stability	Select from table below	
ESR	Select from table below	
Drive level	100 μ Watts Typical (or specify)	
Shunt Capacitance C0	7.0 pF max.	
Resonance Condition	XXS – series, XXP – Parallel with xx pF	
	(for parallel please specify the xx value in pF)	
Ageing	Resistance Weld: ±3 PPM / Year	

Operating Temperature Range		
Code	Range	
Α	0 to +50° C	
В	0 to +60 ° C	
F	0 to +70 ° C	
D	-10 to +60 ° C	
Е	-10 to +70 ° C	
С	-20 to +70 ° C	
G	-30 to +80 ° C	
Н	-30 to +85 ° C	
I	-40 to +85 ° C	
J	-40 to +90 ° C	
K	-55 to +105 ° C	
L	-55 to +125 ° C	

Frequency Adjustment Tolerance at		
25°C/Stability Over OTR		
Stability		
± 3 PPM		
± 5 PPM		
± 7.5 PPM		
± 10 PPM		
± 15 PPM		
± 20 PPM		
± 25 PPM		
± 30 PPM		
± 50 PPM		
± 100 PPM		

Frequency Range By Mode Of Oscillation		
Fundamental	3rd Overtone	5th Overtone
1.8432 to 36.864 MHz	20 to 85 MHz	60 to 150 MHz

Max Ed	quivalent S
Frequency Range (MHz)	ESR
Fundamental	
1.8432 to ≤2.3	Ω 008
2.3 to ≤2.8	450Ω
$2.8 \text{ to} \le 3.0$	250 Ω
3.0 to ≤3.5	150 Ω
3.5 to ≤4.5	100 Ω
4.5 to ≤5.0	80 Ω
5.0 to ≤7.0	60 Ω
7.0 to ≤9.0	45 Ω
9.0 to ≤12.0	30 Ω
12.0 to ≤20.0	25 Ω
20.0 to ≤36.864	20 Ω

Seri	Series Resistance Table		
	Frequency Range (MHz)	ESR	
	3rd Overtone		
	20.0 to ≤30.0	35 Ω	
	30.0 to ≤85.0	30 Ω	
	5th Overtone		
	60.0 to ≤100.0	70 Ω	
	100.0 to ≤150.0	80 Ω	

Pin Profile	Code
2 Pin SMD	S
2 Pin SMD With Jacket	J

Specifications subject to change without notice Revision No. 12b of May 2008

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