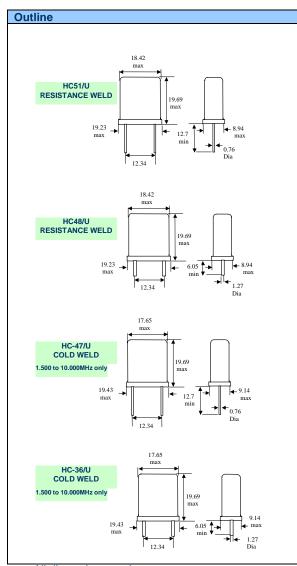


QUARTZ CRYSTAL -HC-51/U, HC-48/U, HC-47/U, HC-36/U

FEATURE

- All metal welded package
- Wide frequency range from 1 MHz upto 150 MHz



1 MHz to 150 MHz			
Select from table below			
Select from table below			
Select from table below			
Select from table below			
100 μ Watts Typical (or specify)			
7.0 pF max.			
XXS – series, XXP – Parallel with xx pF (for parallel please specify the xx value in pF			
Ageing Resistance Weld: ±3 PPM / Year Cold Weld: ±1 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		
1	-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					
Code Stability					
R	±3 PPM				
В	±5 PPM				
С	±7.5 PPM				
D	±10 PPM				
E	±15 PPM				
F	±20 PPM				
G	±25 PPM				
Н	±30 PPM				
M	±50 PPM				
K	±100 PPM				

Frequency Range By Mode of Oscillation					
Fundamental	3rd Overtone	5th Overtone			
1.000 to 37 MHz	20 to 85 MHz	60 to 150 MHz			

Max Equivalen				
Frequency Range MHz	ESR			
Fundamental				
1.0 to ≤1.4	500Ω			
1.4 to ≤2.5	250 Ω			
2.5 to ≤ 3.5	150 Ω			
3.5 to ≤3.9	80 Ω			
4.0 to ≤5.0 50 Ω				
5.0 to ≤7.0	40 Ω			
7.0 to ≤9.0	35 Ω			
9.0 to ≤12.0	30 Ω			
12.0 to ≤20.0	25 Ω			
20.0 to ≤37.0	20 Ω			

eries Resistance Table					
Frequency Range MHz					
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	Ω 08				

Pin Profile	Code
2 Pin Straight	2

▲ All dimensions are in mm.

	Order	ing Ir	form	ation				
	Examp	le						
	48U	2	F	С	D	1	20 P	010M000000
	kage ←							Frequency 10MHz
Frequency adjustment Colerance at 25°C)	esonance Condition (XS: Series 20 P: Parallel with 20pF	
ОТ	R: -20 to 7	′0°C					→ Mo	de: 1: Fundamental 3: 3 rd Overtone 5: 5 th Overtone
								tability over OTR:

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

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