

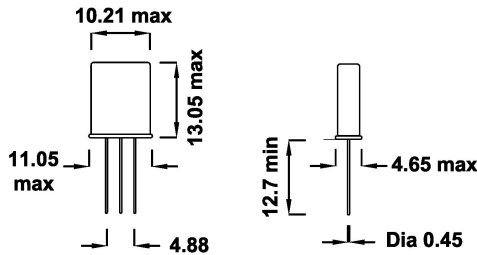


QUARTZ CRYSTAL – HC-49/U - 3 LEAD

**FEATURE**

- All metal welded package
- Wide frequency range from 3.000 MHz upto 150 MHz
- RoHS Compliant Standard

**Outline**

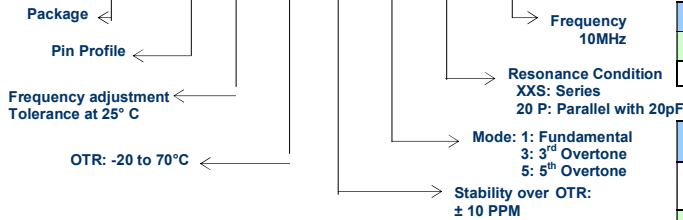


▲ All dimensions are in mm.

**Ordering Information**

**Example**

49U 3 F C D 1 20 P 010M000000



Frequency Range	3.000 MHz to 150 MHz
Frequency Adjustment Tolerance at 25° C	Select from table below
Operating Temperature Range	Select from table below
Frequency Stability 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
A	0 to +50 °C
B	0 to +60 °C
F	0 to +70 °C
D	-10 to +60 °C
E	-10 to +70 °C
C	-20 to +70 °C
G	-30 to +80 °C
G3	-30 to +60 °C
H	-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	
Code	Stability
R	±3 PPM
B	±5 PPM
C	±7.5 PPM
D	±10 PPM
E	±15 PPM
F	±20 PPM
G	±25 PPM
H	±30 PPM
M	±50 PPM
K	±100 PPM

Frequency Range By Mode of Oscillation		
Fundamental	3rd Overtone	5th Overtone
3.0 to 36.864 MHz		

Max Equivalent Series Resistance Table			
Frequency Range MHz	ESR	Frequency Range MHz	ESR
<b>Fundamental</b>		<b>3rd Overtone</b>	
3.0 to ≤3.5	150 Ω	20.0 to ≤30.0	35 Ω
3.5 to ≤4.5	100 Ω	30.0 to ≤85.0	30 Ω
4.5 to ≤5.0	80 Ω	<b>5th Overtone</b>	
5.0 to ≤7.0	60 Ω	60.0 to ≤100.0	70 Ω
7.0 to ≤9.0	45 Ω	100.0 to ≤150.0	80 Ω
9.0 to ≤12.0	30 Ω		
12.0 to ≤20.0	25 Ω		
20.0 to ≤36.864	20 Ω		

Pin Profile	Code
3 Pin Straight	3

Specifications subject to change without notice  
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