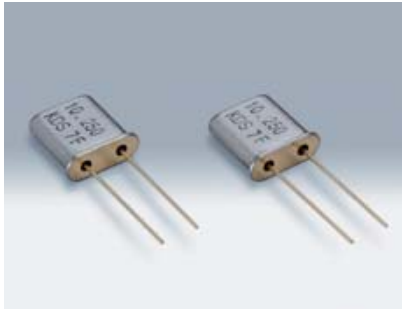


Crystal Resonators / MHz Band Crystal Resonators

UM-1, UM-4, UM-5, HC-49/U



The UM series of resonators offers excellent frequency stability and are ideal for a wide range of mobile radio communications. The designs offer excellent shock resistance and reliability, and despite the small size there is no trade off with the performance. In addition, the HC series is designed for use in microprocessors and other standard clocks, offering excellent frequency stability.



■ Features

- Resonator with a high frequency stability ideal for use in mobile radio communications.
- High precision and high reliability
- Taped and reeled allowing for automatic surface mounting. (HC-49/U)

■ Standard Specification

Item	Type	UM-1	UM-5	UM-4	HC-49/U	
Frequency Range		10~150MHz			2.4~125MHz	
Overtone Order		Fundamental, 3rd overtone, 5th overtone, 7th overtone				
Load Capacitance		Series, 12pF, 16pF, 20pF, 32pF (Fundamental)				
		8pF, 10pF, 12pF, 16pF (3rd, 5th, 7th overtone)				
Drive Level		10μW, 50μW, 100μW, 500μW				
Frequency Tolerance		±5×10 ⁻⁶ , ±10×10 ⁻⁶ , ±15×10 ⁻⁶ , ±20×10 ⁻⁶ , ±30×10 ⁻⁶ (at 25°C)				
Series Resistance		50~120Ω max.		50~100Ω max.	25~350Ω max.	
Frequency Characteristics over Temperature		±5×10 ⁻⁶ , ±10×10 ⁻⁶ , ±20×10 ⁻⁶ , ±30×10 ⁻⁶ , ±50×10 ⁻⁶ /-10~+60°C (Ref. to 25°C)				
Storage Temperature Range		-30~+80°C				
Packing Unit		600pcs.				
Standard Specification		Refer to page 38				

■ Series Resistance

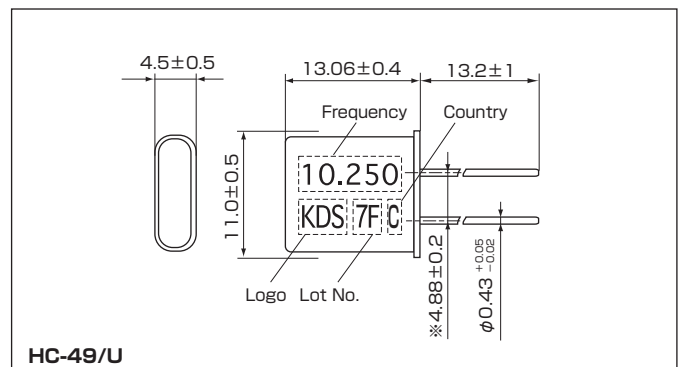
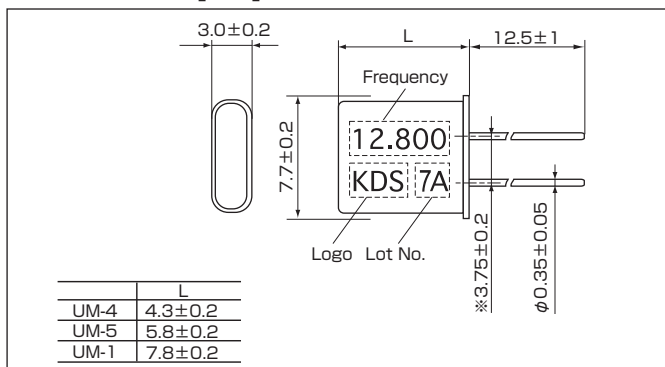
Consult our sales representative for other specifications.

Frequency	Type	Overtone Order	UM-4 Ω max.	UM-5 Ω max.	UM-1 Ω max.	HC-49/U Ω max.
2.4~ 3.0MHz		F	-	-	-	350
3.0~ 3.5MHz		F	-	-	-	150
3.5~ 4.0MHz		F	-	-	-	90
4.0~ 7.0MHz		F	-	-	-	60
7.0~ 10MHz		F	-	-	-	35
10~ 15MHz		F	50	50	50	35
15~ 20MHz		F	50	50	50	25
20~ 25MHz		F/3	50/-	50/-	50/-	25/50
25~ 30MHz		F/3	50/-	50/-	50/-	25/40
30~ 75MHz		3	70	70	70	40
75~ 100MHz		3/5	70/-	70/80	70/80	-/60
100~ 125MHz		5	80	80	80	60
125~ 150MHz		5	100	100	100	-

Consult our sales representative for other specifications.

F: fundamental 3: 3rd overtone 5: 5th overtone

■ Dimensions[mm]



※Measurement between the root of the leads.