

Features

- ★ HC-49U package
- ★ Precise tolerance and stability
- ★ Large range of choice of frequency

Applications

- ★ Motherboard of computer
- ★ Wireless phone

Dimension (Unit: mm)

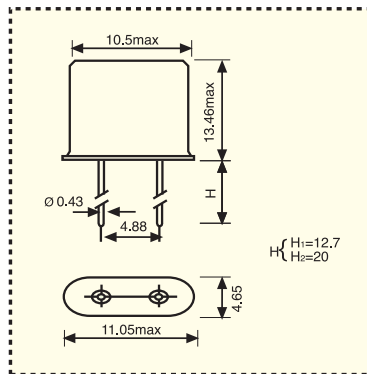
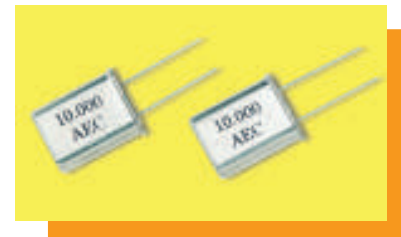


Table 1 ESR value

Frequency Range (MHz)	ESR (Ω)Max	Cut Type
1.84 ~ 2,399	500	Fundamental
2.400 ~ 2,999	300	Fundamental
3.000 ~ 3,499	250	Fundamental
3.500 ~ 3,999	120	Fundamental
4.000 ~ 4,999	100	Fundamental
5.000 ~ 5,999	50	Fundamental
6.000 ~ 7,999	40	Fundamental
8.000 ~ 12,999	30	Fundamental
13.000 ~ 30,000	25	Fundamental
24,000 ~ 90,000	50	3rd Overtone
90,000 ~ 160	90	3rd Overtone

- ★ Resistance weld seal
- ★ Offer fitted insulators

- ★ Consumer electronics
- ★ Data communication equipment



Specification (Characteristics)

Item	Symbol	Specifications
Frequency Range	f	1.84 ~ 160MHz
Vibration Mode	-	AT Fund. (1.84 ~ 30MHz) BT Fund. (20 ~ 40MHz) 3rd O/T (25 ~ 90MHz) 5th O/T (81 ~ 160MHz)
Frequency Tolerance at 25°C	$\Delta f/f$	±10 ppm ±20 ppm ±30 ppm ★ ±50 ppm
Frequency Stability in Operating Temp. Range	$\Delta f/f$	±10 ppm ±20 ppm ±30 ppm ★ ±50 ppm
Load Capacitance	CL	12pF 16pF 18pF 20pF 32pF or series
Operating Temp. Range	Topr	0°C ~ +50°C -10°C ~ +60°C ★ -20°C ~ +70°C -40°C ~ +85°C
Storage Temp. Range	Tstg	-40°C ~ +85°C
Equivalent Series Resistance (ESR)	Rs	See Table 1
Drive Level	PWR	100μW ~ 1mW
Shunt Capacitance	C0	7.0pF Max.
Insulation Resistance	IR	500MΩ at DC100 V
Aging	fa	±5 ppm /Year (Max)
Packing		Bulk 100pcs per polybags, 500pcs per inner box, 10,000pcs per export carton Tape and Reel Packages 1,000pcs per reel 10,000pcs per export carton

Part Number and Ordering

★ Commonly Used

Part Number Code	Holder Type + Frequency + Mode of Vibration+Tolerance/Stability + RS + CL
Ordering Code	Same as Above
Example	49U -18M -AF - 30/50 -25Ω -16P