

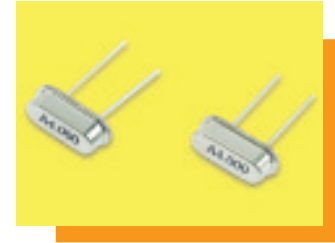
Crystal Resonator

Features

- ★ Low profile
- ★ Bulk, tape and reel
- ★ Offer fitted insulator
- ★ Large range of choice of frequency
- ★ Resistance weld

Applications

- ★ Motherboard of computer
- ★ Consumer electronics
- ★ CD ROM
- ★ VTR
- ★ Data communication
- ★ Automotive electronics
- ★ Modem
- ★ TV game



Dimension (Unit: mm)

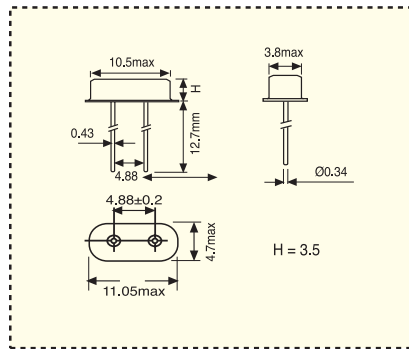


Table 1

Frequency Range (MHz)	Vibration Mode	ESR Max (Ω)
3.2 ~ 3.4	Fund.	180
3.5 ~ 4.49	Fund.	150
4.5 ~ 5.99	Fund.	120
6.0 ~ 7.99	Fund.	100
8.0 ~ 9.99	Fund.	80
10.0 ~ 11.9	Fund.	70
12.0 ~ 15.9	Fund.	60
16.0 ~ 19.9	Fund.	50
20.0 ~ 26.0	Fund.	40
26.0 ~ 39.9	3rd O/T	100
40.0 ~ 100.0	3rd O/T	80

Specifications (Characteristics)

Item	Symbol	Specification
Frequency Range	f	3.20 ~ 100MHz
Vibration Mode	-	Fund (3.20 ~ 26MHz) 3rd O/T (26 ~ 100MHz)
Frequency Tolerance at 25°C	$\Delta f/f$	±10 ppm ±20 ppm ±30 ppm ★ ±50 ppm
Frequency Stability in Operating Temp. Range	$\Delta f/f$	±5 ppm ±10 ppm ±20 ppm ±30 ppm ★
Load Capacitance	CL	16 ~ 32pF or series
Operating Temp. Range	Topr	-10°C ~ +60°C ★ -20°C ~ +70°C
Storage Temp. Range	Tstg	-40°C ~ +85°C
Equivalent Series Resonance (ESR)	Rs	See Table 1
Drive Level	PWR	100μW Max.
Shunt Capacitance	C0	7.0pF Max.
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

★ Commonly used