



Hubei Dongguang Electronics Co., Ltd.

湖北东光电子股份有限公司

HC-49U Series Crystal DataSheet

- Part No: CXU1-XXXXXXXX-AXXXBC12, eg. CXU1-016384000-A125BC12
- Used for telecom、TV、Computer、refrigerator、acoustics、electric toy etc.
- Low Cost and High Stability

PARAMETERS:

ITEM	MIN	MAX	UNIT
Frequency Range	2.000	160.000	MHZ
Vibration Mode	See table 1		
Frequency Tolerance @ 25°C±2°C	±10	±100	PPM
Operation Temperature	See table 2		
Frequency Stability	See table 2		
Store Temperature	-40	+85	°C
ESR	See table 1		Ω
Shunt Capacitance		7	PF
Drive Level	10	1000	μ W
Load Capacitance	8	84 or series	PF
Insulation Resistance	500MΩ /DC:100±15V		
Aging	±5 ppm /year		

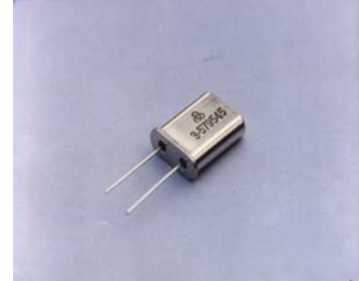
Table1: ESR and VIBRATION

FREQUENCY RANGE/MHz	ESR(Ω)	VIBRATION
2.000 ~ 2.399	5000	Fundamental, AT CUT
2.400 ~ 2.999	250	Fundamental, AT CUT
3.000 ~ 3.499	200	Fundamental, AT CUT
3.500 ~ 3.999	100	Fundamental, AT CUT
4.000 ~ 4.999	80	Fundamental, AT CUT
5.000 ~ 5.999	50	Fundamental, AT CUT
6.000 ~ 7.999	40	Fundamental, AT CUT
8.000 ~ 12.999	30	Fundamental, AT CUT
13.000 ~ 36.000	25	Fundamental, AT CUT
24.000 ~ 90.000	50	3rd overtone, AT CUT
90.000 ~ 159.999	90	5th overtone, AT CUT

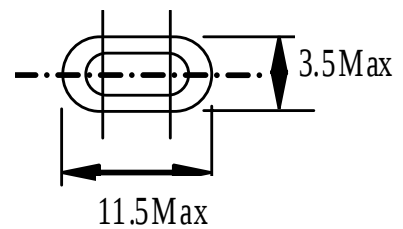
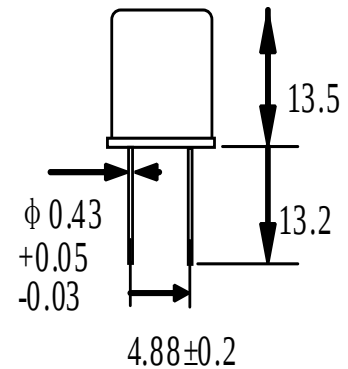
Table 2:Operation Temperature and Tolerance

Temperature Range	Frequency Stability	
	MIN	MAX
0°C~+50°C	±2.5PPM	±100PPM
-10°C~+60°C	±10PPM	±100PPM
-20°C~+70°C	±10PPM	±100PPM
-30°C~+80°C	±15PPM	±100PPM
-40°C~+85°C	±20PPM	±100PPM

Figure:



Dimension: Unit: mm



Application Chart:

