



Hubei Dongguang Electronics Co.,Ltd.

湖北东光电子股份有限公司

HC-49SSMD (矮壳) Series Crystal DataSheet

- Part No: CXS2-XXXXXXXX-AXXXBA12, eg. CXS2-012000000-A125BA12
- Used for Quartz Clock, Time-Counter in Computer, Monitor System in Airplane, Train etc
- Low Cost and High Stability

PARAMETERS:

ITEM	MIN	MAX	UNIT
Frequency Range	3.5	60.000	MHz
Vibration Mode	AT-Cut, fundamental, 3rd		
Frequency Tolerance @ 25 ± 2	± 10	± 50	ppm
Operation Temperature	-20 ~ +70		
Frequency Stability	± 30 (-10 ~ +60)		ppm
Store Temperature	-40 ~ +85		
Resonance resistance	30	150	Ω
Shunt Capacitance	7 (max)		PF
Drive Level	100		μW
Load Capacitance	12 ~ 50PF or Series		PF
Insulation Resistance	500MΩ / DC: 100 ± 15V		

Figure:



Dimension: Unit: mm

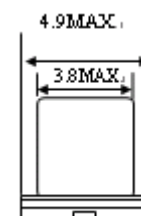
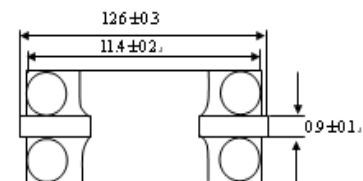
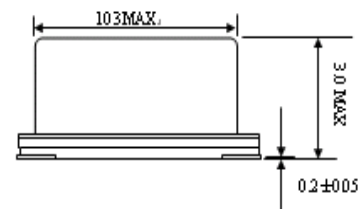


Table1 : resonance resistance

FREQUENCY RANGE/MHz	vibration	Rr (Ω)
3.2~3.99MHz	Fund	150
4.0~4.99MHz	Fund	120
5.0~5.99MHz	Fund	100
6.0~6.99MHz	Fund	80
7.0~7.99MHz	Fund	60
4.5~5.0MHz	Fund	60
10.0~13.99MHz	Fund	50
14.0~19.99MHz	Fund	40
20.0~40.0MHz	Fund	25
25.0~40.0MHz	3rd Overtone	100
40.0~100.0MHz	5 rd Overtone	80

Table 2: Operation Temperature and Tolerance

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

Application Chart:

