Features

- Surface mount type crystal units
- 4 types can be applied by customer.
- A great number of standard frequencies.
- High frequency pullability and low equivalent series resistance
- Highly mass production capability.
- The best choice of PC, STB, LCDM, and Cable Modem
- RoHS Compliant / Pb Free

Electrical Specifications

Frequency Range	3.00 ~ 100.00 MHz
Load Capacitance	Series、6~32 pF、 or specify
Frequency Tolerance (at 25 ℃)	±10、±20、±30 ppm、 or specify
Frequency Stability Over Operating Temperature Range	±10、±20、±30 ppm、 or specify
Operating Temperature Range	-20 ~ +70 ℃、-40~+85 ℃、or specify
Storage Temperature Range	-40 ~ +85 ℃
Shunt Capacitance (C0)	7 pF Max.
Drive Level	1 ~ 1000 μW (100 μW typical)
Insulation Resistance	500 MΩ Minimum at 100VDC
Aging (at 25℃)	±3 ppm / year Max.

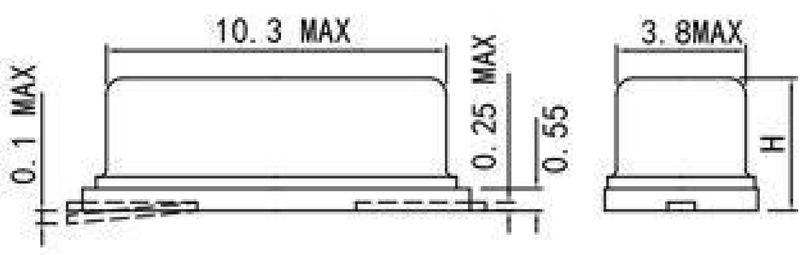
Equivalent Series Resistance(ESR)

Frequency Range (MHz)	Mode	ESRΩ(MAX)
3.00~3.49	FUND	150
3.50~3.99	FUND	120
4.00~4.99	FUND	100
5.00~6.99	FUND	80
7.00~7.99	FUND	70
8.00~8.99	FUND	60
9.00~9.99	FUND	50
10.00~10.99	FUND	40
11.00~19.99	FUND	30
20.00~40.00	FUND	25
27.00~29.99	3RD	100
30.00~44.99	3RD	80
45.00~80.00	3RD	60

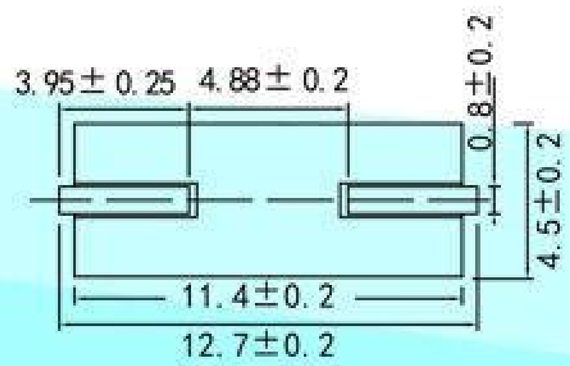
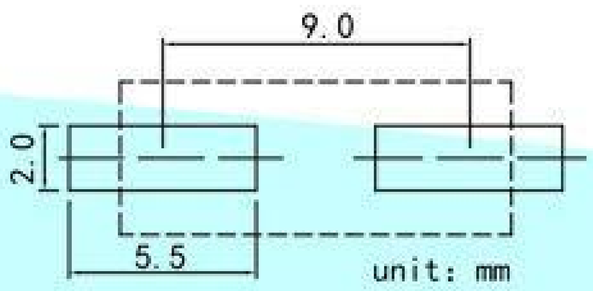
Frequency Stability Over Operating Temperature Range

Temperature Range	Frequency Stability (ppm)						
	±3	±5	±7.5	±10	±15	±20	±30
0~+50℃	*	*	*	*	*	*	*
-10~+60℃		*	*	*	*	*	*
-20~+70℃			*	*	*	*	*
-30~+80℃				*	*	*	*
-40~+85℃					*	*	*

Dimensions



TYPE	H MAX
49S-SMD	4.0
49S2-SMD	3.2
49S3-SMD	3.0
49S4-SMD	2.7



suggested layout