

HC49S-SMD3L

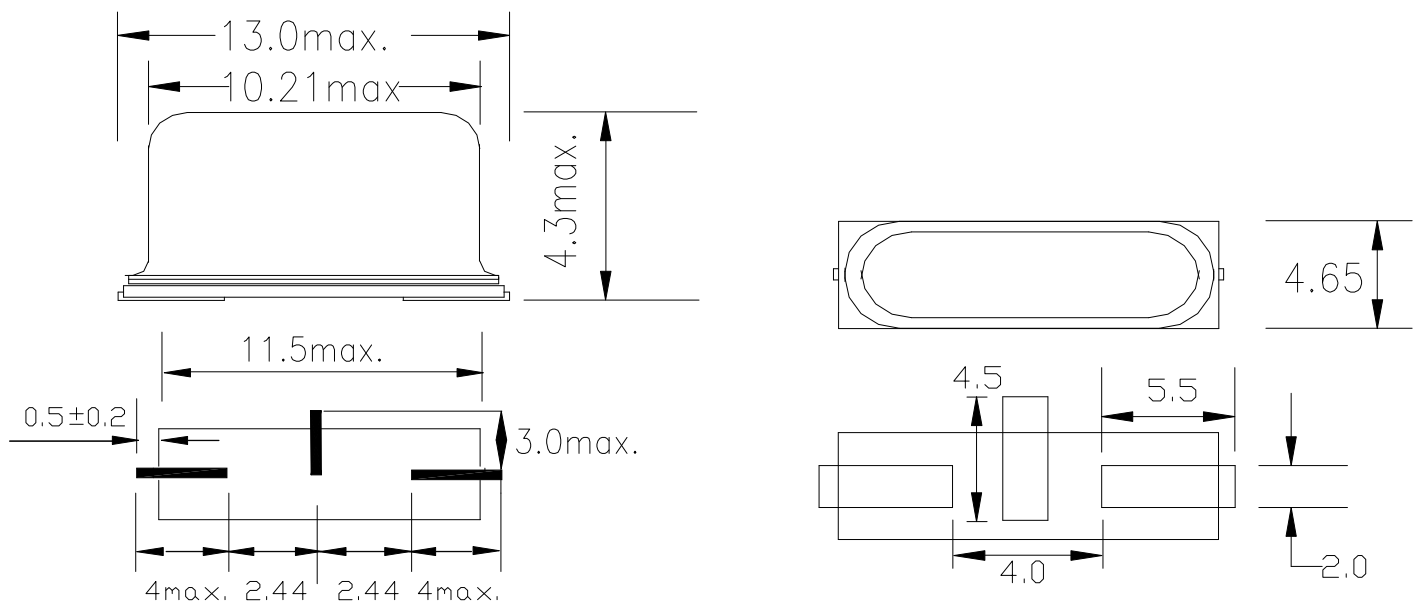
Features

- high stability**
- low cost**
- tight tolerance**
- superb aging characteristic / 1st year ± 5 ppm typical**
- excellent anti-shock holder**
- lead configuration and width for easy mounting**

Applications

- Cordless Phones
- Wireless Equipment
- Datacom Hubs / Switches / Routers
- ADSL Modems
- RF transmitters / receivers
- A/V applications

HC49-SMD3L



All dimensions are in millimeter

Specifications

Vibration Mode:	fundamental / third overtone / fifth overtone
Frequency Tolerance:	±10ppm ~ ±50ppm
Load capacitance (CL):	10pF ~ 32pF or series
Resonance Resistance (Rr):	see Resistance Table
Frequency stability:	see Frequency vs Operating Temp Table
Temperature Range:	-40°C ~ +85°C
Shunt Capacitance (CO) :	7.0pF max.
Drive Level:	10 μ W ~ 1000 μ W
Insulation Resistance:	500MΩ min / DC 160V
Shock	Δf/f = ±5ppm withstand half sine wave in each 3 directions under 100G, 5msec
Vibration	Δf/f = ±5ppm withstand each 1 hr in 3 directions under 1~2min. of 10~55Hz, amplitude 0.7~0.9mm (peak topeak in vibration)
Leak	1 x 10 ⁻⁷ Torr. 1/sec max

Resistance Table (ESR)

Frequency Range(MHz):	HC-49U	HC-49T	HC-49S	HC49S-SMD	HC49-SMD3L	Vibration mode
1.800+ ~ 2.000	700	800	1200	1200	1200	fundamental
2.000+ ~ 3.000	500	600	1000	1000	1000	fundamental
3.000+ ~ 3.200	300	400	600	600	600	fundamental
3.200+ ~ 4.000	150	200	180	180	180	fundamental
4.000+ ~ 4.500	90	150	150	150	150	fundamental
4.500+ ~ 5.000	70	80	120	120	120	fundamental
5.000+ ~ 7.000	50	60	100	100	100	fundamental
7.000+ ~ 10.000	35	40	90	90	90	fundamental
10.000+ ~ 20.000	25	25	70	70	70	fundamental
20.000+ ~ 25.000	45	50	120	120	120	third overtone
25.000+ ~ 70.000	40	40	100	100	100	third overtone
70.000+ ~ 160.000	70	70	-	-	-	fifth overtone

Frequency vs Operating Temp Table

Temp(°C)	PPM	±2.5	±5	±10	±15	±20	±30	±50
0 ~ +50		*	*	*	*	*	*	*
-10 ~ +60			*	*	*	*	*	*
-20 ~ +70				*	*	*	*	*
-30 ~ +80					*	*	*	*
-40 ~ +85						*	*	*