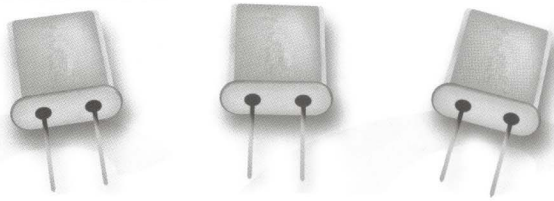
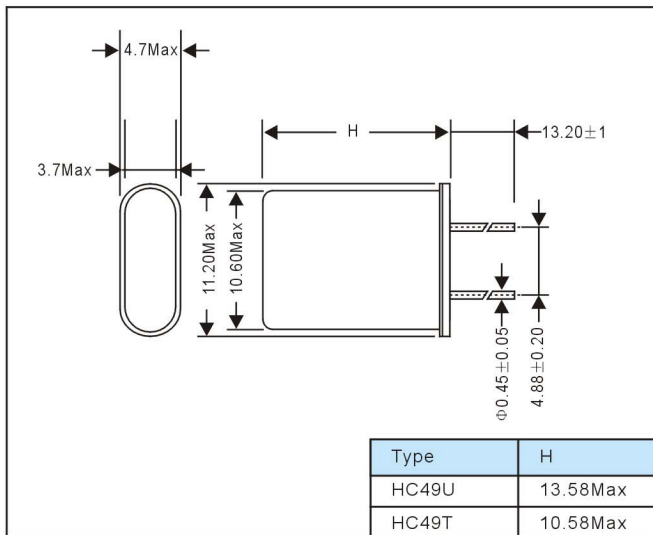


Series HC49U HC49T



External dimensions

Unit: mm

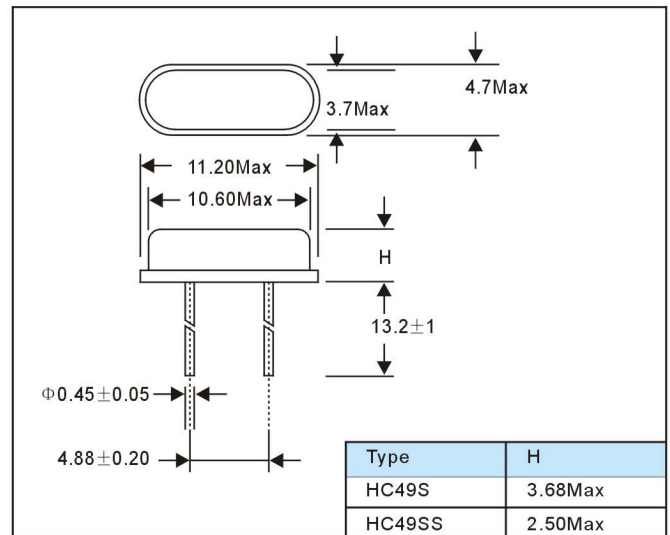


Series HC49S HC49SS



External dimensions

Unit: mm



Item	Specification	Remarks
Nominal Frequency Range	1.800MHz to 30.000MHz	Fundamental Mode; AT cut
	20.000MHz to 36.000MHz	Fundamental Mode; BT cut
	24.000MHz to 60.000MHz	Overtone Mode; AT cut
Frequency Tolerance	±30PPM(Standard) at 25°C±3°C	Others are offered
Load Capacitance	Fund:10pF to ∞, O.T.:5pF to ∞	Please specify
Series resistance	As ESR Table	
Shunt Capacitance	7pF Max	
Drive Level	10 μ W to 100 μ W	1000 μ W Max
Operating Temperature Range	-20°C to +70°C (Standard)	Others are offered
Storage Temperature Range	-55°C to +125°C	
Stability Over Temperature Range	±30PPM(Standard)	Others are offered
Insulated Resistance	500M Ω	Minimum at 100Vdc
Aging	±3PPM/Year	Maximum

Item	Specification	Remarks
Nominal Frequency Range	3.500MHz to 30.000MHz	Fundamental Mode; AT cut
	20.000MHz to 40.000MHz	Fundamental Mode; BT cut
	24.000MHz to 60.000MHz	Overtone Mode; AT cut
Frequency Tolerance	±30PPM(Standard) at 25°C±3°C	Others are offered
Load Capacitance	Fund:10pF to ∞, O.T.:5pF to ∞	Please specify
Series resistance	As ESR Table	
Drive Level	10 μ W to 100 μ W	1000 μ W Max
Operating Temperature Range	-20°C to +70°C (Standard)	Others are offered
Storage Temperature Range	-55°C to +125°C	
Stability Over Temperature Range	±30PPM(Standard)	Others are offered
Insulated Resistance	500M Ω	Minimum at 100Vdc
Aging	±3PPM/Year	Maximum

Resistance of Series Resonance (ESR)

Frequency (MHz)	Mode	Ohm Max	Frequency (MHz)	Mode	Ohm Max
1.8~2.199	Fund.	500	8.0~8.999	Fund.	35
2.2~2.399	Fund.	300	9.0~9.999	Fund.	30
2.4~3.199	Fund.	300	10.0~12.999	Fund.	25
3.2~3.499	Fund.	150	13.0~19.999	Fund.	25
3.5~3.999	Fund.	90	20.0~30.0	3 rd OT	20
4.0~4.999	Fund.	70	20.0~36.0(BT)	3 rd OT	20
5.0~5.999	Fund.	60	24.0~29.999	3 rd OT	50
6.0~6.999	Fund.	40	30.0~39.999	3 rd OT	40
7.0~7.999	Fund.	40	40.0~60.0	3 rd OT	60

Remark:

All specifications subject to change without notice.

Resistance of Series Resonance (ESR)

Frequency (MHz)	Mode	Ohm Max	Frequency (MHz)	Mode	Ohm Max
3.5~3.999	Fund.	120	10.0~12.999	Fund.	40
4.0~4.999	Fund.	90	13.0~19.999	Fund.	35
5.0~5.999	Fund.	90	20.0~30.0	Fund.	25
6.0~6.999	Fund.	65	20.0~36.0(BT)	Fund.	25
7.0~7.999	Fund.	55	24.0~29.999	3 rd OT	120
8.0~8.999	Fund.	50	30.0~39.999	3 rd OT	80
9.0~9.999	Fund.	45	40.0~60.0	3 rd OT	60

Remark:

All specifications subject to change without notice.