Quartz Series



Series

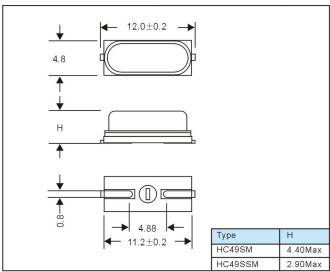
HC49SM HC49SSM



Series UM1 Um5



External dimensions

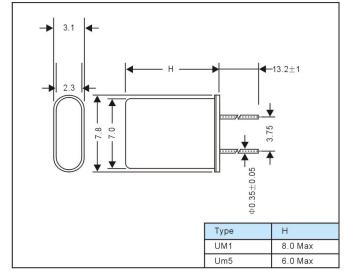


Item	Specification	Remarks	
Nominal Frequency Range	3.500MHz to 30.000MHz	Fundamental Mode; AT cut	
	20.000MHz to 40.000MHz	Fundamental Mode; BT cut	
	24.000MHz to 60.000MHz	Overtone Mode; AT cut	
Frequency Tolerance	\pm 30PPM(Standard) at 25 $^{\circ}\mathrm{C}\pm3^{\circ}\mathrm{C}$	Others are offered	
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 Мах	
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	

External dimensions

Unit: mm

ni	nit	nit:	nit: m



Item	Specification	Remarks		
Nominal	3.500MHz to 40.000MHz	Fundamental Mode; AT cut		
	25.000MHz to 100.000MHz	Fundamental Mode; BT cut		
Frequency Range	75.000MHz to 160.000MHz	Overtone Mode; AT cut		
Frequency Tolerance	\pm 10PPM(Standard) at 25 $^{\circ}$ C \pm 3 $^{\circ}$ 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 Мах		
Operating Temperature Range	-10°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	±2PPMYear	Maxinum		

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.

Resistance of Series Resonance (ESR)

Frequency (MHz)	Mode	Ohm Max	Frequency (MHz)	Mode	Ohm Max
3.5~3.9	Fund.	200	3.5~3.9	Fund.	
4.0~4.99	Fund.	150	4.0~4.99	Fund.	
5.0~9.9	Fund.	60	5.0~9.9	Fund.	
10.0~14.9	Fund.	40	10.0~14.9	Fund.	60
15.0~40.0	Fund.	30	15.0~40.0	Fund.	35
25.0~29.9	3 rd OT	50	25.0~29.9	3 rd OT	60
30.0~49.9	3 rd OT	45	30.0~49.9	3 rd OT	50
50.0~100.0	3 rd OT	60	50.0~100.0	3 rd OT	60
75.0~160.0	3 rd OT	80	75.0~160.0	3 rd OT	90

Remark:

All specifications subject to change without notice.

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