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EN: This Datasheet is presented by the manufacturer.

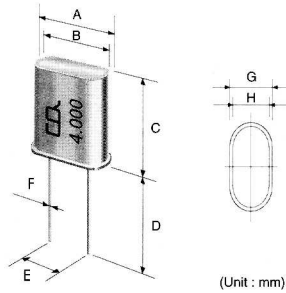
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HC-49/U Series

Quartz Crystal Units in HC-49/U Holder Types

HC-49/U



(Unit : mm)

Holder Type	Dimensions (mm)							
	A	B	C	D	E	F	G	H
HC-49/U	11.05 Max.	10.21 Max.	13.46 Max.	12.7 Min.	4.88 ± 0.2	∅0.43 ^{+0.05} _{-0.02}	4.65 Max.	3.81 Max.

Electrical Specifications

Item	HC-49/U
Frequency Tolerance at 25°C	± 30 ppm
Frequency Stability from -20°C to +70°C	± 30 ppm
Load Capacitance (CL)	10 ~ 50pF or Series
Shunt Capacitance (Co)	7pF Max.
Drive Level	0.1mW ~ 1.0mW
Insulation Resistance	500M (DC100V ± 15V)
Leaking Rate	1 x 10 ⁻⁶ mbar L/Sec.
Aging	±5ppm/Year

Electrical Specifications of Common Frequencies

Frequency (MHz)	CL (pF)	Rs Max. (Ω)	Holder Type	Vibration Mode	Frequency (MHz)	CL (pF)	Rs Max. (Ω)	Holder Type	Vibration Mode	Frequency (MHz)	CL (pF)	Rs Max. (Ω)	Holder Type	Vibration Mode
1.8432	32	650	HC-49/U	Fundamental	6.144	32	40	HC-49/U	Fundamental	15.360	32	25	HC-49/U	Fundamental
2.000	32	650			6.400	32	40			16.000	32	20		
2.097152	32	550			6.5536	32	40			16.9344	12	20		
2.4576	32	350			7.15909	20	40			17.472	32	20		
3.000	32	150			7.200	20	40			17.734475	32	20		
3.2768	32	150			7.3728	32	40			18.000	32	20		
3.575611	18	100			7.680	32	40			18.432	32	20		
3.579545	16	90			8.000	32	35			19.6608	32	20		
3.582056	18	100			8.192	20	35			20.000	32	20		
3.582692	16	100			8.4672	20	35			22.1184	32	25		
3.600	30	100			8.867238	20	35			24.000	32	25		
3.6864	20	100			9.216	32	30			24.576	32	40		
3.8392	15	100			9.600	32	30			26.601712	18	50		
3.840	32	100			9.8304	32	30			27.0000	20	50		
3.848	15	100			10.000	32	30			27.095	20	50		
3.93216	20	100			10.240	18	30			27.125	20	50		
3.980	12	100			10.245	32	30			27.145	20	50		
3.9936	32	100			10.700	32	30			27.195	20	50		
4.000	20	100			10.752	32	30			28.000	32	50		
4.032	20	100			11.000	32	30			28.322	32	50		
4.096	16	100			11.0592	32	30			29.4912	32	50		
4.194304	12	100			11.150	30	30			32.000	32	50		
4.433619	16	80			11.5035	20	30			33.8688	20	50		
4.433619	Series	80			12.000	32	30			34.922	32	50		
4.500	20	80			12.288	32	30			35.2512	18	50		
4.800	32	80			12.800	16	25			36.000	32	50		
4.9152	32	70			13.875	32	30			36.864	16	50		
5.000	20	60			14.000	32	25			40.000	32	50		
5.0688	32	50			14.1875	Series	25			44.560	16	50		
5.6448	32	50			14.31818	32	25			45.470	16	50		
6.000	32	40			14.7456	32	25			48.000	32	50		
					15.000	32	25			49.860	32	50		
									3 rd Overtone					