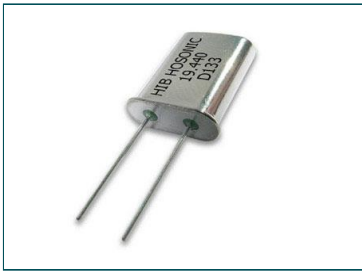


HC-49/U Series 1.8432 to 125MHz



The HC-49/U series is an industry standard Crystal package. It is our standard resistance weld type quartz crystal.

FEATURES

- Low Cost
- Industry Standard
- Wide Frequency Range
- Excellent Aging

Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Units
Frequency Range	F_0		1.8432		125.000	MHz
Frequency Tolerance	$\Delta F/F_0$	at 25°C	±10	±30	±50	PPM
Temperature Stability	T_C	Ref to 25°C	±5	±30	±50	PPM
Operating Temperature Range	T_{OPR}		-55	-20 to +70	+125	°C
Storage Temperature Range	T_{STG}		-55	-40 to +85	+125	°C
Shunt Capacitance	C_0				7	pF
Load Capacitance	C_L	Customer Specified	10	20	Series	pF
Insulator Resistance	I_R	100 V _{DC}	500			MΩ
Drive Level	DL		1	100	500	μW
Aging	F_a	at 25°C, per year	-5.0		+5.0	PPM

Equivalent Series Resistance (ESR) and Mode of Vibration (Mode)

Frequency Range(MHz)	Max ESR (Ω)	Mode	Frequency Range(MHz)	Max ESR (Ω)	Mode
1.8432 to 1.999	650	Fundamental	6.000 to 7.999	50	Fundamental
2.000 to 2.999	500	Fundamental	8.000 to 12.999	35	Fundamental
3.000 to 3.499	250	Fundamental	13.000 to 32.000	25	Fundamental
3.500 to 3.999	150	Fundamental	27.000 to 29.999	60	3 rd Overtone
4.000 to 4.999	100	Fundamental	30.000 to 83.250	40	3 rd Overtone
5.000 to 5.999	80	Fundamental	83.251 to 125.000	90	5 rd Overtone

Mechanical Dimensions – mm (inch)

