

HC-49/SSM Series

8.0 to 32MHz*



This part is an ultra-low size strip crystal units with a SMD low profile package.

FEATURES

- Low Cost
- Excellent Aging
- Metal Case
- Compact Size

Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Units
Frequency Range	F_0		8.000*		32.000*	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	D_L		1	100	500	μW
Aging	F_a	at 25°C, per year	-5.0		+5.0	PPM
Packing Unit			1000 pcs/reel			

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

* Available on the following frequencies:

Frequency (MHz)	Max ESR (Ω)	Mode	Frequency (MHz)	Max ESR (Ω)	Mode
8.000000	200	Fundamental	24.000000	50	Fundamental
11.059200	200	Fundamental	24.576000	50	Fundamental
12.000000	60	Fundamental	25.000000	50	Fundamental
13.560000	60	Fundamental	26.000000	50	Fundamental
16.000000	50	Fundamental	27.000000	50	Fundamental
20.000000	50	Fundamental	32.000000	40	Fundamental

Mechanical Dimensions – mm

