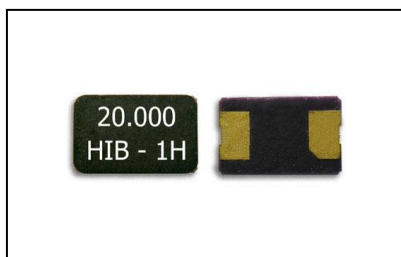


HCX-5FA Series

8 to 54MHz



The HCX-5FA crystal is an ultra-miniature ceramic package SMD type. The height is less than 1.2mm and fundamental till 54MHz that allows an easy circuit design. Excellent electric performance optimum for AV application.

FEATURES

- Ultra-miniature size
- Fundamental till 54MHz
- Industry Standard
- Wide Frequency Range
- Ceramic Package
- Reflow soldering

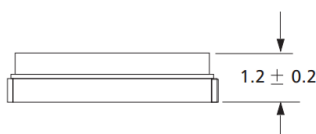
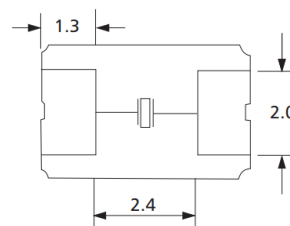
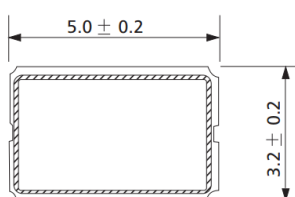
Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Units
Frequency Range	F_0		8.000		54.000	MHz
Frequency Tolerance	$\Delta F/F_0$	at 25°C	±10	±30	±30	PPM
Temperature Stability	T_C	Ref to 25°C	±20	±30	±30	PPM
Operating Temperature Range	T_{OPR}		-55	-20 to +70	+125	°C
Storage Temperature Range	T_{STG}		-40		+85	°C
Shunt Capacitance	C_0				5	pF
Load Capacitance	C_L	Customer Specified	10	20	Series	pF
Insulator Resistance	I_R	100 V _{DC}	500			MΩ
Drive Level	D_L		10	50	100	μW
Aging	F_a	at 25°C, per year	-3.0		+3.0	PPM

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

Frequency Range(MHz)	Max ESR (Ω)	Mode
8.000 to 19.999MHz	80	Fundamental
20.000 to 29.999MHz	70	Fundamental
30.000 to 54.000MHz	50	Fundamental

Mechanical Dimensions – mm (inch)



Recommended Solder Pattern

