

HCX-8FA Series

8 to 160MHz



The HCX-8FA is a miniature SMD crystal with 8.0x4.5 ceramic package and height of a 1.6mm max. It is widely applied in notebook computer, PCMCIA and communication equipment.

FEATURES

- Miniature size
- Wide Frequency Range
- Glass sealing
- Emboss taping

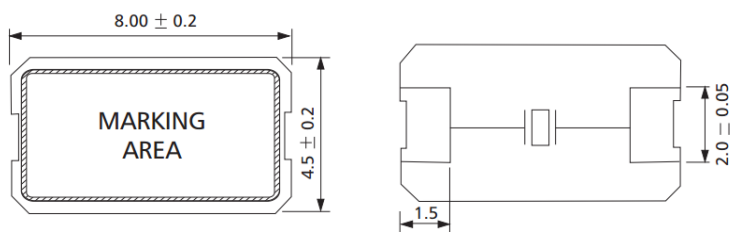
Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Units
Frequency Range	F_0		8.000		160.000	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	10	300	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 9.999MHz	100	Fundamental
10.000 to 11.999MHz	80	Fundamental
12.000 to 40.000MHz	60	Fundamental
40.000 to 79.999MHz	90	3 rd Overtone
80.000 to 99.999MHz	90	3 rd Overtone
100.000 to 160.000MHz	150	3 rd Overtone

Mechanical Dimensions – mm (inch)



Recommended Solder Pattern

