

## HCX-6FA Series

8 to 80MHz



The HCX-6FA is a miniature SMD crystal with 6.0x3.5mm ceramic package and height of a 1.2mm 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		80.000	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 <sub>DC</sub>	500			MΩ
Drive Level	$D_L$		10		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 9.999MHz	70	Fundamental
10.000 to 29.999MHz	40	Fundamental
30.000 to 44.999MHz	60	3 <sup>rd</sup> Overtone
45.000 to 80.000MHz	50	3 <sup>rd</sup> Overtone

### Mechanical Dimensions – mm (inch)

