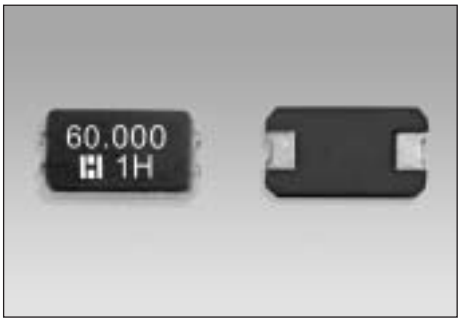
SURFACE MOUNT CRYSTAL

• HCX-8FA Series 8.0X4.5X1.6mm



The HCX-8FA is a miniature SMD crystal with 8X4.5 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

SMD Crystal Units

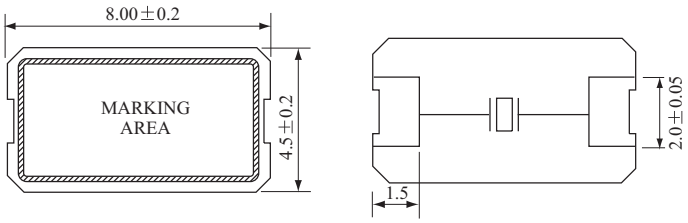
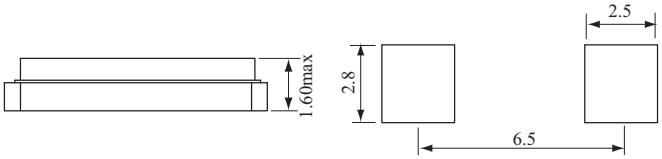
Electrical Specifications

Parameter	Symb	Condition	Min	Type	Max	Units
Frequency Range	F_O		10		80	MHz
Frequency Tolerance	△F/ Fo	AT 25℃	±30	±50	±100	ppm
Temperature Stability	T_C	REF TO 25℃	±30	±50	±100	ppm
Operating Temperature Range	T_{OPR}		-10		+70	℃
Storage Temperature Range	T_{STG}		-40		+85	℃
Shunt Capacitance	C_O				7	pF
Load Capacitance	C_L	Customer specified	10		Series	pF
Insulator Resistance	I_R	$100V_{DC}$	500			MΩ
Drive Level	D_L			100	300	μW
Aging	Fa	AT 25℃,per year	-5.0		+5.0	ppm

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

Frequency Range	Max ESR(Ω)	Mode
10.000MHz to 11.999MHz	80	Fundamental
12.000MHz to 39.999MHz	50	Fundamental
40.000MHz to 80.000MHz	70	3rd Overtone

Mechanical Dimensions(mm)



Recommended Solder Pattern