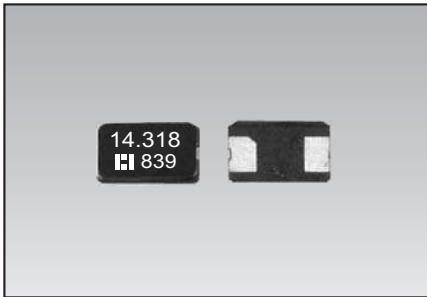




SMD crystal units

• HCX-5FA Series 5.0X3.2X1.2 mm



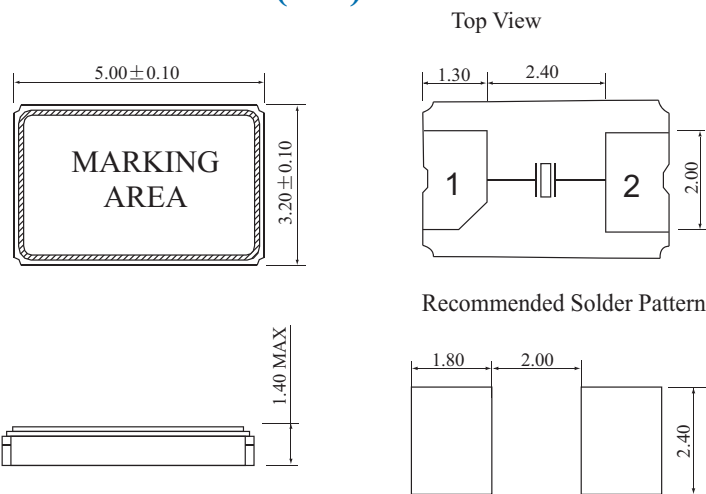
FEATURES

- Prepared frequencies can meet most of bluetooth chipsets
- Excellent electric performance optimum for mobilephone and bluetooth applications are exhibited
- Excellent heat resistance and shock resistance.
- Products that are lead-free. These can meet the requirement of re-flow profiling using lead-free solder

Electrical Specifications

Item	Type	HCX-5FA			
		10 to 19.999MHz	20 to 29.999MHz	30 to 47.999MHz	48 to 80.000MHz
Frequency Range	Fo	10 to 19.999MHz	20 to 29.999MHz	30 to 47.999MHz	48 to 80.000MHz
Overtone Order		Fundamental			3 rd Overtone
Load Capacitance	CL	8pF to Series			
Frequency Tolerance	$\Delta F / F_o$	$\pm 30\text{ppm}, \pm 50\text{ppm}, \pm 100\text{ppm}(\text{At } 25^\circ\text{C})$			
Equivalent Series Resistance	ESR	80 Ω max.	70 Ω max.	50 Ω max.	70 Ω max.
Temperature Stability	Tc	$\pm 30\text{ppm}, \pm 50\text{ppm}, \pm 100\text{ppm}(\text{Refer to } 25^\circ\text{C})$			
Operating Temperature Range	T _{OPR}	-20~+70°C, -30~+85°C Option			
Storage Temperature Range	T _{STG}	-40~+85°C			
Shunt Capacitance	C _O	7pF max.			
Insulator Resistance	I _r	500M Ω min. (At 100V _{DC})			
Drive Level	D _L	100 μ W (300 μ W max.)			
Aging	F _a	$\pm 5\text{ppm}$ max. (At 25°C, Frist year)			
Packing Unit		1000pcs/reel			

Mechanical Dimensions(mm)



TAIWAN:
 HOSONIC ELECTRONIC CO., LTD.
 23-1 LANE 84. CHUN YING ST. SHULIN CHEN.
 TAIPEI 23804. TAIWAN
 WEB SITE: <http://www.hosonic.com>

☎: 886-2-86875200
 📠: 886-2-26816456
 📧: sharon@hosonic.com.tw

CHINA:
 HANGZHOU HOSONIC ELECTRONIC CO., LTD.
 NO.242 LIANGBO ROAD. LIANGZHU TOWN.
 YUHANG DISTRICT, HANGZHOU, ZHEJIANG, CHINA
 WEB SITE: <http://www.hosonic.com.cn>

☎: 86-571-88778189
 📠: 86-571-88778857
 📧: mike@hosonic.com

Specifications are subject to change without notice