# SMD CRYSTAL UNITS



## • E5FA Series 5.0\*3.2 Glass Sealing Crystal



#### **FEATURES**

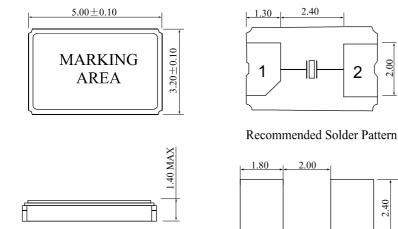
- compact and thin (5.0\*3.2\*1.4mm max.)
- Suitable for various applications
- Primary solution for DIP type crystal design looking to consider a switch to SMD type
- ROHS compliant

## **Electrical Specifications**

Item	Туре	E5FA			
Frequency Range	F0	8 to 9.999MHz	10 to 11.999MHz	12 to 23.999MHz	24 to 54.000MHz
Mode of Vibration		Fundamental			
Load Capacitance	CL	10pF to Series			
Frequency Tolerance	△F/ F0	$\pm 10$ ppm, $\pm 30$ ppm, $\pm 50$ ppm(At 25°C)			
Equivalent Series Resistance	ESR	120Ω max.	80 Ω max.	50 Ω max.	30 Ω max.
Temperature Stability	TC	±10ppm,±30ppm,±50ppm(Refer to 25°C)			
Operating Temperature Range	Topr	<b>-</b> 20~+70°C , <b>-</b> 30~+85°C Option			
Storage Temperature Range	Tstg	<b>-</b> 55∼+125°C			
Shunt Capacitance	C0	7pF max.			
Insulator Resistance	IR	500M Ω min. (At 100Vpc)			
Drive Level	DL	100μW <b>(</b> 300μW max.)			
Aging	Fa	± <b>5</b> ppm max. (At 25°C ,First year)			
Packing Unit		1000pcs/reel			

Top View

### **Mechanical Dimensions(mm)**



<sup>\*\*</sup>Please contact us for inquiries regarding other Specifications