Hosonic

# SMD Glass Sealing Crystals

RoHS Compliant HF

## ● E5FA Series 5.0×3.2×1.40mm




### Features

- SMD glass sealed package
- High precision and good stability of frequency performance
- RoHS compliant

### Applications

- Primary solution for DIP type crystal design looking to consider a switch to SMD type
- Consumer equipment

## Electrical Specifications

| Item | Symbol | Condition | E5FA |
|---|---|---|---|
| Frequency Range | $f_{nom}$ | - | 8 ~ 54MHz |
| Mode of Vibration | - | - | Fundamental |
| Load Capacitance | CL | - | 8 ~ 20pF. or specify |
| Frequency Tolerance (at 25℃) | $f_{tol}$ | - | ±10ppm. or specify |
| Equivalent Series Resistance | ESR | 8.0 ~ 9.9MHz | 120Ω max. |
| | | 10.0 ~ 11.9MHz | 80Ω max. |
| | | 12.0 ~ 15.9MHz | 50Ω max. |
| | | 16.0 ~ 23.9MHz | 40Ω max. |
| | | 24.0 ~ 54.0MHz | 30Ω max. |
| Temperature Stability | $f_{temp}$ | Refer to 25℃ | ±15ppm. or specify |
| Operating Temperature Range | $T_{opr}$ | - | -30 ~ +85℃, or specify |
| Storage Temperature Range | $T_{stg}$ | - | -40 ~ +85℃ |
| Shunt Capacitance | $C_0$ | - | 7pF max. |
| Insulator Resistance (at DC 100V) | IR | - | 500MΩ min. |
| Drive Level | DL | - | 1 ~ 300μW (100μW typ.) |
| Aging (at 25℃) | Fa | - | ±3ppm / year max. |

**Please contact us for inquiries regarding other Specifications.

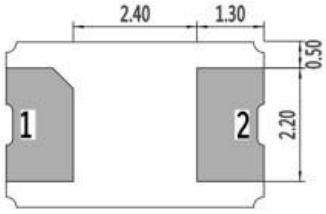
## Mechanical Dimensions

Unit: (mm)

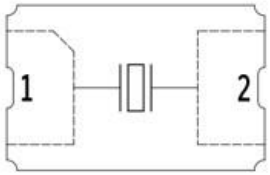






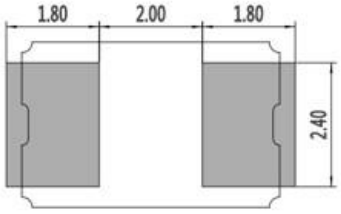



Pin Connection
(Top View)




| Pin | Function |
|---|---|
| 1. 2 | Crystal |

Recommended PAD Layout




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