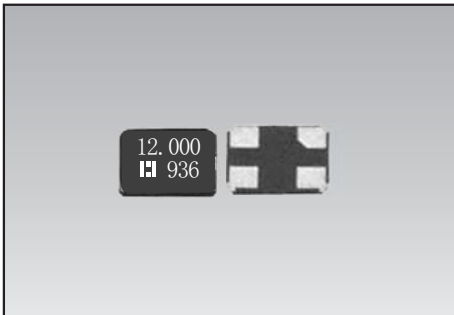




## • HCX-3FB Series 3.2X2.5X0.8 mm



### FEATURES

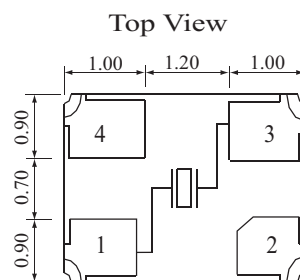
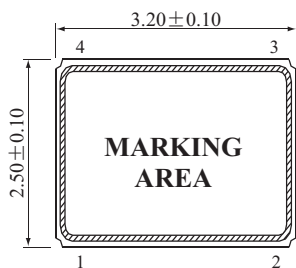
- Compact and thin (3.2X2.5X0.8mm typ.)
- Frequency range of 12M to 54M with Fund
- Excellent electrical performance for OA and AV applications
- Excellent heat resistance and shock resistance.
- ROHS compliant

SMD Crystal units

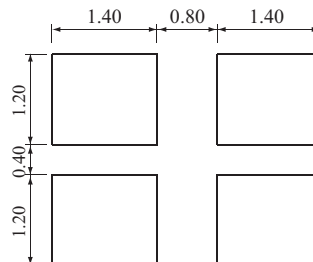
### Electrical Specifications

| Item                         | Type          | HCX-3FB  |                  |                  |
|------------------------------|---------------|--|------------------|------------------|
|                              |               | 12 to 19.999MHz                                    | 20 to 25.999MHz  | 26 to 54.000MHz  |
| Frequency Range              | Fo            | 12 to 19.999MHz                                    | 20 to 25.999MHz  | 26 to 54.000MHz  |
| Overtone Order               |               | Fundamental  |                  |                  |
| Load Capacitance             | CL            | 6 to 20pF  |                  |                  |
| Frequency Tolerance          | $\Delta F/Fo$ | $\pm 30ppm, \pm 50ppm, \pm 100ppm$ (At 25°C)       |                  |                  |
| Equivalent Series Resistance | ESR           | 80 $\Omega$ max.                                   | 70 $\Omega$ max. | 50 $\Omega$ max. |
| Temperature Stability        | Tc            | $\pm 30ppm, \pm 50ppm, \pm 100ppm$ (Refer to 25°C) |                  |                  |
| Operating Temperature Range  | TOPR          | -20~+70°C, -30~+85°C Option                        |                  |                  |
| Storage Temperature Range    | TSTG          | -40~+85°C  |                  |                  |
| Shunt Capacitance            | Co            | 3pF max.   |                  |                  |
| Insulator Resistance         | IR            | 500M $\Omega$ min. (At 100VDC)                     |                  |                  |
| Drive Level                  | DL            | 50 $\mu$ W (100 $\mu$ W max.)                      |                  |                  |
| Aging                        | Fa            | $\pm 5ppm$ max. (At 25°C, Frist year)              |                  |                  |
| Packing Unit                 |               | 3000pcs/reel                                       |                  |                  |

### Mechanical Dimensions(mm)



### Recommended Solder Pattern



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Specifications are subject to change without notice