

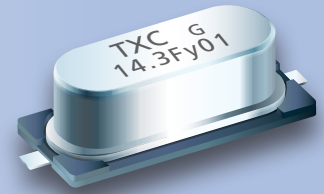
# Metal Can Type Crystals

## HC-49S SMD 9C Series

Quartz Crystals  
Series

### Features

- Surface mount type crystal units.
- A great number of standard frequencies.
- High frequency pullability and low equivalent series resistance.
- Highly mass production capability.
- The best choice of PC, STB, LCDM, and Cable Modem.
- RoHS Compliant / Pb Free.



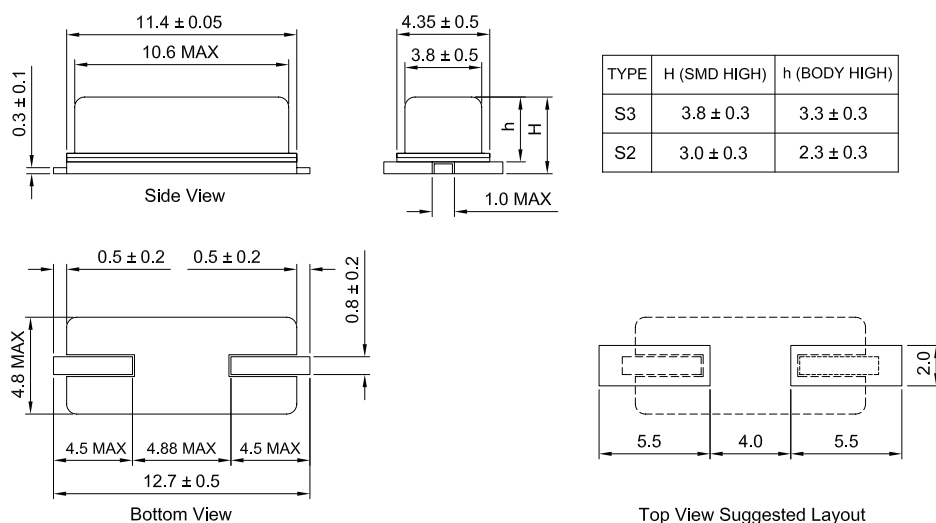
### Electrical Specifications

| Item / Type  | 9C   |
|--|--|
| Frequency Range                                      | 3.2 ~ 90 MHz                                   |
| Frequency Tolerance (at 25 °C)                       | ± 30 ppm, or specify                           |
| Frequency Stability Over Operating Temperature Range | ± 30 ppm, or specify                           |
| Operating Temperature Range                          | - 20 ~ + 70 °C, or specify                     |
| Shunt Capacitance (C0)                               | 7 pF Max.                                      |
| Drive Level  | 1 ~ 500 μW (100 μW typical)                    |
| Load Capacitance                                     | Series, 16 pF, 20 pF, 30 pF, 32 pF, or specify |
| Aging (at 25 °C)                                     | ± 5 ppm / year Max.                            |
| Storage Temperature Range                            | - 40 ~ + 85 °C                                 |

### Equivalent Series Resistance(ESR)

| Fundamental     |            | 3rd Overtone |            |
|-----------------|------------|--------------|------------|
| 3.2 ~ 3.686 MHz | 200 Ω Max. | 27 ~ 30 MHz  | 100 Ω Max. |
| 3.686 ~ 5 MHz   | 150 Ω Max. | 30 ~ 50 MHz  | 80 Ω Max.  |
| 5 ~ 10 MHz      | 80 Ω Max.  | 50 ~ 90 MHz  | 60 Ω Max.  |
| 10 ~ 14 MHz     | 40 Ω Max.  |              |            |
| 14 ~ 30 MHz     | 30 Ω Max.  |              |            |

### Dimensions



Units: mm

Remark : Specification subject to change without prior notice. Please confirm with our sales. <http://www.txccorp.com>

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