



Features

- > Resistance welded type crystal units.
- > A great number of standard frequencies.
- > High frequency pullability and low equivalent series resistance.
- > Lower cost and highly mass production capacity.
- > The best choice of PC, STB, LCDM, and Cable Modem.
- > RoHS Compliant / Pb Free.

Electrical Specifications

| | |
|--|--------------------------------------|
| Frequency Range | 3.00 ~ 100.00 MHz |
| Load Capacitance | Series, 6~32 pF, or specify |
| Frequency Tolerance (at 25 °C) | ±10, ±20, ±30 ppm, or specify |
| Frequency Stability Over Operating Temperature Range | ±10, ±20, ±30 ppm, or specify |
| Operating Temperature Range | -20 ~ +70 °C, -40~+85 °C, or specify |
| Storage Temperature Range | -40 ~ +85 °C |
| Shunt Capacitance (C0) | 7 pF Max. |
| Drive Level | 1 ~ 1000 μW (100 μW typical) |
| Insulation Resistance | 500 MΩ Minimum at 100VDC |
| Aging (at 25°C) | ±3 ppm / year Max. |

Equivalent Series Resistance(ESR)

| Frequency Range (MHz) | Mode | ESRΩ(MAX) |
|-----------------------|------|-----------|
| 3.00 ~ 3.49 | FUND | 150 |
| 3.50 ~ 3.99 | FUND | 120 |
| 4.00 ~ 4.99 | FUND | 100 |
| 5.00 ~ 6.99 | FUND | 80 |
| 7.00 ~ 7.99 | FUND | 70 |
| 8.00 ~ 8.99 | FUND | 60 |
| 9.00 ~ 9.99 | FUND | 50 |
| 10.00 ~ 10.99 | FUND | 40 |
| 11.00 ~ 19.99 | FUND | 30 |
| 20.00 ~ 40.00 | FUND | 25 |
| 27.00 ~ 29.99 | 3RD | 100 |
| 30.00 ~ 44.99 | 3RD | 80 |
| 45.00 ~ 80.00 | 3RD | 60 |

Frequency Stability Over Operating Temperature Range

| Temperature Range | Frequency Stability (ppm) | | | | | | |
|-------------------|---------------------------|----|------|-----|-----|-----|-----|
| | ±3 | ±5 | ±7.5 | ±10 | ±15 | ±20 | ±30 |
| 0 ~ +50°C | * | * | * | * | * | * | * |
| -10 ~ +60°C | | * | * | * | * | * | * |
| -20 ~ +70°C | | | * | * | * | * | * |
| -30 ~ +80°C | | | | * | * | * | * |
| -40 ~ +85°C | | | | | * | * | * |

Dimensions

