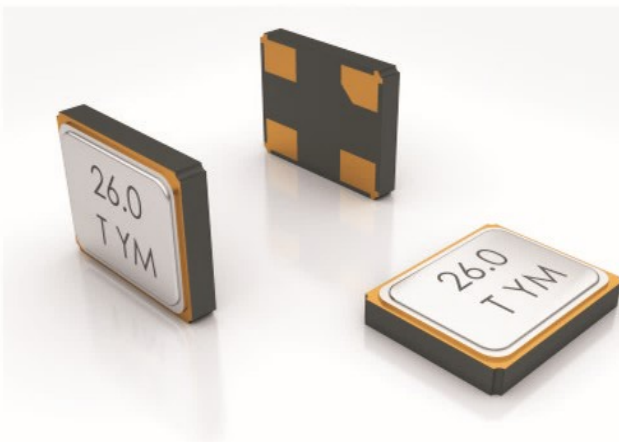


# Metal Can Type Crystals

## M3225 Series

### Features

- Reflow resistance type crystal units.
- Higher frequency pullability and lower equivalent series resistance.
- Lower cost and highly mass production capability.
- The best choice of TV, STB, LCDM and Cable Modem.
- RoHS Compliant / Pb Free.



| Electrical Specifications                            |                                        |
|------------------------------------------------------|----------------------------------------|
| Item / Type                                          | M3225                                  |
| Frequency Range                                      | 12 ~ 54 MHz                            |
| Frequency Tolerance (at 25°C)                        | ±10 ppm, or specify                    |
| Frequency Stability Over Operating Temperature Range | ±10 ppm, or specify                    |
| Operating Temperature Range                          | - 10 ~ + 60 °C , or specify            |
| Shunt Capacitance (C0)                               | 5 pF Max.                              |
| Drive Level                                          | 10 µW (100 µW MAX)                     |
| Load Capacitance                                     | Series, 10 pF, 12 pF, 16 pF or specify |
| Aging (at 25°C)                                      | 3 ppm / year Max.                      |
| Storage Temperature Range                            | - 40 ~ + 90 °C                         |

| Equivalent Series Resistance(ESR) |            |                  |           |
|-----------------------------------|------------|------------------|-----------|
| Fundamental                       |            | 3rd Overtone     |           |
| 10.000 ~ 15.999 MHz               | 100 Ω Max. | 54.000 ~ 125 MHz | 100 Ω Max |
| 16.000 ~ 18.999 MHz               | 80 Ω Max.  |                  |           |
| 19.000 ~ 29.999MHz                | 60 Ω Max.  |                  |           |
| 30.000 ~ 54.000 MHz               | 40 Ω Max.  |                  |           |

