

MAIN FEATURE

- High reliable • Low Cost and short lead time • 2 Pins

APPLICATION

- IoT, IT and consumer electronics and more

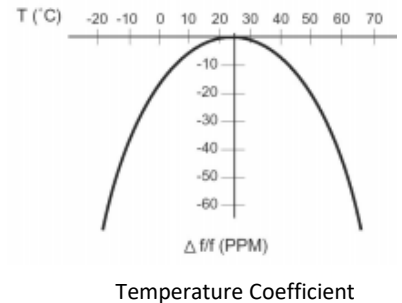
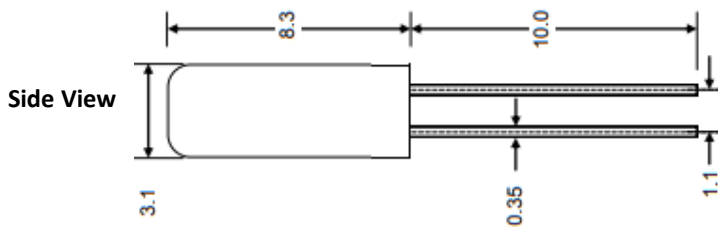


Ø3.1*H8.3mm

STANDARD SPECIFICATION

| Parameter | Value | | | Unit | Condition |
|------------------------------------|----------|------|-------|-----------|---------------------------------------|
| | Min. | Type | Max. | | |
| Frequency Range | 4.0 | | 60.00 | MHz | |
| Oscillation Mode | AT Fund. | | | | 3 RD Overtone Option |
| Frequency Tolerance | - | ±50 | | ppm@25 °C | see p/n guide for more option |
| Operating Temp. Range | -40 | - | +85 | °C | see p/n guide for more option |
| Storage Temp. Range | -55 | - | +125 | °C | |
| Load Capacitance (CL) | - | 18 | - | pF | see p/n guide for more option |
| Frequency Stability | - | ±50 | - | ppm | see p/n guide for more option |
| Equivalent Series Resistance (ESR) | | | 150 | ohm | @4.000 ~ 5.00MHz |
| | | | 120 | | @5.001 ~ 7.00MHz |
| | | | 80 | | @7.001 ~ 10.00MHz |
| | | | 60 | | @10.001 ~ 12.00MHz |
| | | | 40 | | @12.001 ~ 30.00MHz |
| | | | 80 | | @30.00 ~ 60.00MHz, 3 rd OT |
| Drive Level | - | - | 100 | µW | |
| Shunt Capacitance | - | - | 7.0 | pF | |
| Insulation Resistance | 500 | - | | mW | DC/100V +-10% |
| Aging per year | - | ±3 | | ppm | @25 °C |

DIMENSION (mm)



PART NUMBER GUIDE

Example: TGS CCD 8M0A50-18-50-40-80 BLF

[Part Number and Part Code Structure](#)

| | | | | | | | | | | | |
|-----|-----|-----|---|----|-----|-----|-----|-----|----|----|----|
| TGS | CCD | 8M0 | A | 50 | -18 | -50 | -40 | -80 | B | LF | XX |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

- 1) TGS: Company Code
- 2) CCD: MHz Thru Hole Crystal, 2 pins, Ø3.1*H8.3mm
- 3) 8M0: Frequency Range 8.000MHz or specify detail frequency range
- 4) A: Oscillation Mode, A: AT Fund. 3: 3rd Overtone
- 5) 50: Freq. tolerance, 50: +/-50ppm; 10: +/-10ppm; 20: +/-20ppm; 30: +/-30ppm or Specify detail value
- 6) 18: Load Capacitance(CL), 15: 15pF; 18: 18pF; 20: 20pF; 30: 30pF or Specify detail CL value
- 7) 50: Frequency Stability, 50: +/-50ppm; 10: +/-10ppm; 20: +/-20ppm; 30: +/-30ppm or Specify detail value
- 8) 40: Operating Temp. Range, 40: -40°C~+85°C; 10: -10°C~+60°C; 20: -20°C~+70°C; or Specify detail value
- 9) 80: Equivalent Series Resistance (ESR), 80: 80 ohm Max.
- 10) B: Package in Bulk.
- 11) LF: RoHS Compliant
- 12) XX: Internal Control Code- 2 letter or digits ; Blank: N/A

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