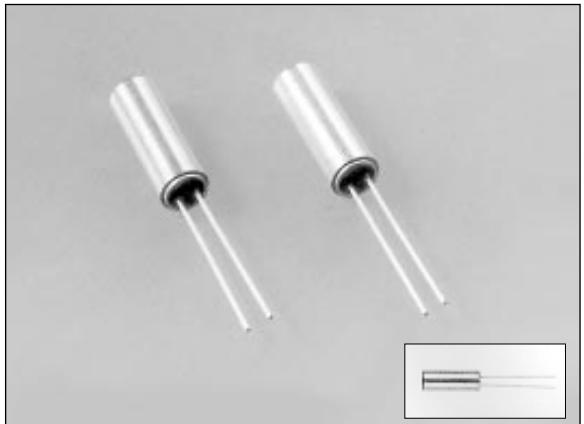


TEMPERATURE SENSING CRYSTAL

HTS-206

- Crystal used to sense the change in temperature.
- 2mm in diameter and 6mm in length.
- Good linearity frequency and temperature.
- Low frequency (40KHz) enables low current consumption.
- Wide temperature range (-40 to +85°C).
- Suitable for DTCXO and temperature equipment.



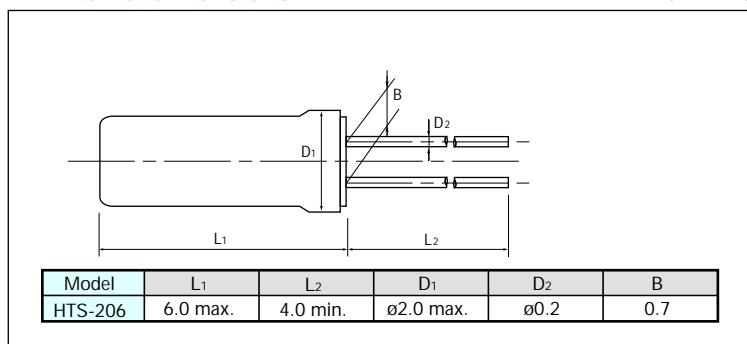
Actual size

■ Specifications (characteristics)

| Item | Symbol | Specifications | Remarks |
|--------------------------------|------------------|-----------------|--|
| Nominal frequency | f ₀ | 40kHz | |
| Temperature range | T _{STG} | -55°C to +125°C | |
| | T _{OPR} | -40°C to +85°C | |
| Drive level | GL | 1.0 μW max. | |
| | DL | 0.1 μW typ. | |
| Frequency tolerance (standard) | Δf/f | ±2% | T _a =25°C, DL=0.1μW |
| Temperature coefficient | 1st | α | -29.6 x 10 ⁻⁶ /°C [±2%] |
| | 2nd | β | -6.4 x 10 ⁻⁸ /°C ² [±8%] |
| | 3rd | γ | -1.5 x 10 ⁻¹⁰ /°C ³ max. |
| Series resistance | R ₁ | 30 KΩ max. | T _a =25°C, DL=1.0μW |
| Motion capacitance | C ₁ | 2.0 fF typ. | |
| Shunt capacitance | C ₀ | 0.9 pF typ. | |
| Insulation resistance | IR | 500 MΩ min. | |
| Aging | f _a | ±3ppm/year max. | T _a =25°C ±3°C |
| Shock resistance | S.R. | ±3ppm max. | Three drops on a hard board from 50 cm |

■ External dimensions

(Unit: mm)



■ Temperature characteristic

