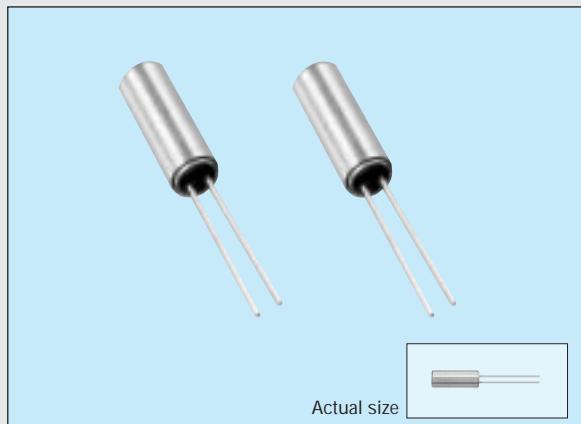


TEMPERATURE SENSING CRYSTAL

HTS-206

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

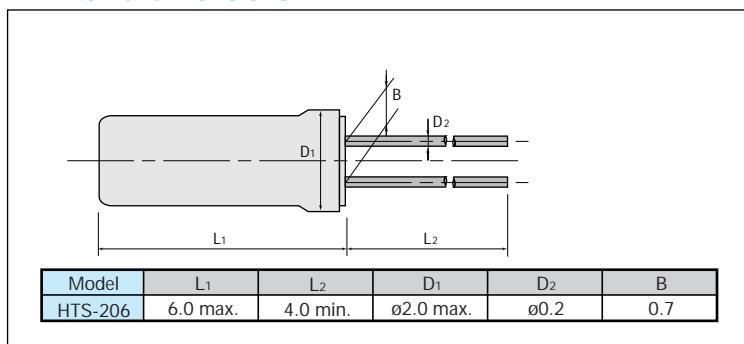


■ Specifications (characteristics)

Item		Symbol	Specifications	Remarks
Nominal frequency		f ₀	40 kHz	
Temperature range	Storage temperature	T _{STG}	-55°C to +125°C	
	Operating temperature	T _{OPR}	-40°C to +85°C	
Drive level	Maximum	GL	1.0 μW max.	
	Recommended	DL	0.1 μW typ.	
Frequency tolerance (standard)		Δf/f	±2%	T _a =25°C, DL=0.1μW
Temperature coefficient	1st	α	-29.6 × 10 ⁻⁶ /°C [±2%]	
	2nd	β	-6.4 × 10 ⁻⁸ /°C ² [±8%]	
	3rd	γ	-1.5 × 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

