

FEATURES

- Ultra thin type with height 1.6mm Max.
- Ultra small mounting area of 16.8mm²
- SMD type suitable for automatic & high density surface mounting.
- Plastic mold package containing highly reliable tubular type quartz crystal.
- Excellent shock and heat resistance.
- RoHS compliant.

APPLICATIONS

- Cellular Phones, Pagers, Radio Communication Equipment, Portable Applications etc.

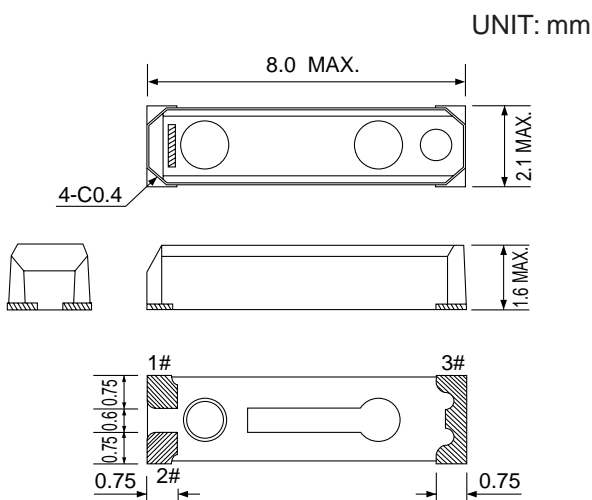
STANDARD SPECIFICATIONS

Conditions without notice (Temperature: +25±2°C, DL: 0.1μW)

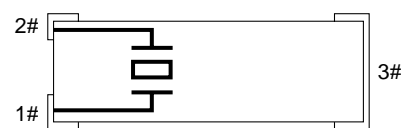
Item	Symbol	Specifications	Conditions / Notes
Nominal Frequency	f _{nom}	32.768kHz	
Frequency Tolerance	f _{tol}	±10 x 10 ⁻⁶ , ±20 x 10 ⁻⁶ , ±50 x 10 ⁻⁶	Can be used in high accurate products
Turnover Temperature	T _i	+25±5°C	
Parabolic Coefficient	B	(-3.5±1.0) x 10 ⁻⁸ /°C ²	
Load Capacitance	C _L	7.0 pF / 12.5pF	
Motional Resistance (ESR)	R ₁ typ./max.	35kΩ / 55kΩ	
Absolute Maximum Drive Level	DL _{max}	1μW	
Level of Drive	DL	0.1μW	
Shunt Capacitance	C ₀	0.95pF typ.	
Frequency Ageing	f _{age}	±3 x 10 ⁻⁶	+25±3°C, First Year
Operating Temperature	T _{use}	-40°C to +85°C	
Storage Temperature	T _{stg}	-55°C to +125°C	Store a pcs. part

DIMENSIONS

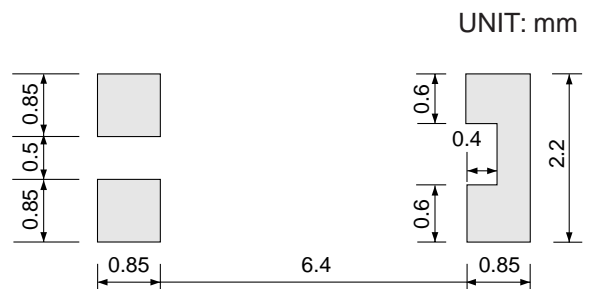
(For details, please refer to individual specification)



INTERNAL LEAD CONNECTION



RECOMMENDED SOLDERING PATTERN



Remarks 1. Do not connect #3 to external device and GND.

2. The part of the cylinder inside resin mold may be sometimes exposed, however, it does not affect the characteristics of crystal unit.

3. Please make sure that there is no pattern under SSP-T6 on the circuit board.