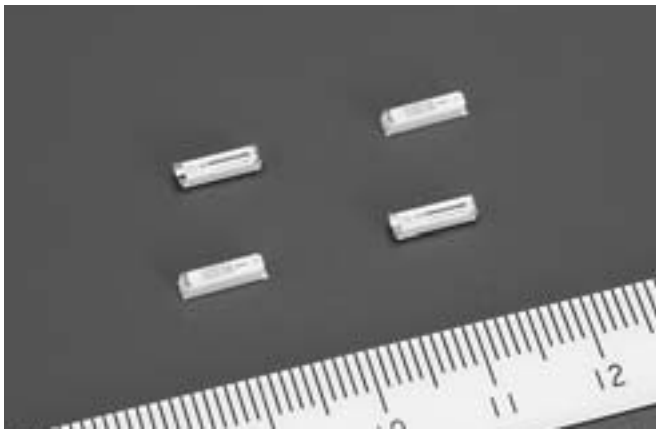


FEATURES

- Ultra thin type with height 1.6mm Max.
- Ultra small mounting area of 16.8mm^2
- 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

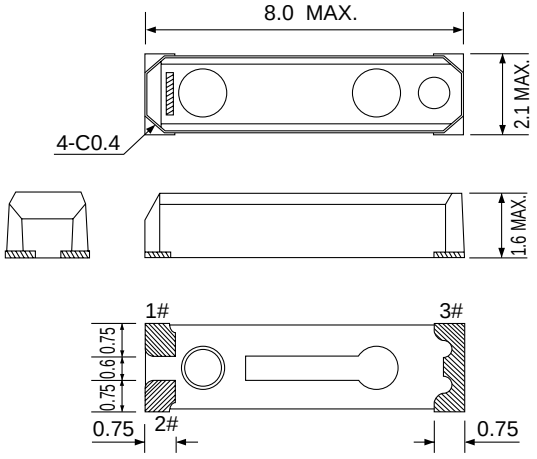
Conditions without notice (Temperature: +25± 2°C, DL: 0.1μW)

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	Ti	+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	DLmax	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

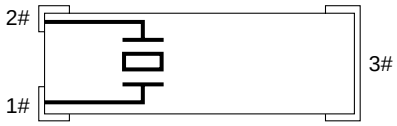
DIMENSIONS

(For details, please refer to individual specification)

UNIT: mm

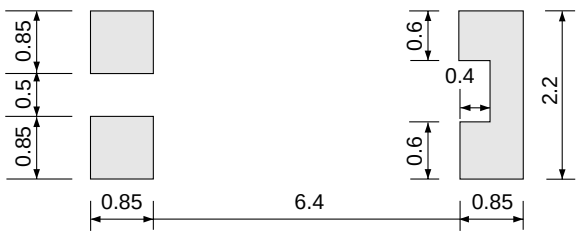


INTERNAL LEAD CONNECTION



RECOMMENDED SOLDERING PATTERN

UNIT: mm



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.