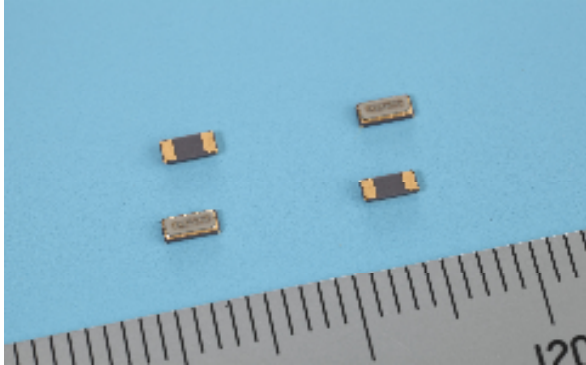


## SC-32P for Intel 8 Series (R1=50kΩ max.)

### Low ESR Series SC-32P

### Features



#### •Product for Intel 8series(R1=50kΩ)

- SMD type suitable for automatic
- Excellent shock and heat resistance
- Complete Pb-free
- highly reliable photolithographic processed quartz crystal.

### Applications

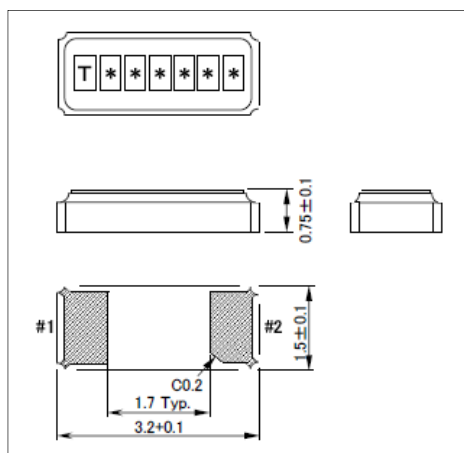
Note PC, Tablet PC, Cell-Phones, Car Audio  
GPS Module, FM Tuner Module, Mobile Device  
Sub-clock function for a variety of Micro-  
Controllers

### Standard Specifications

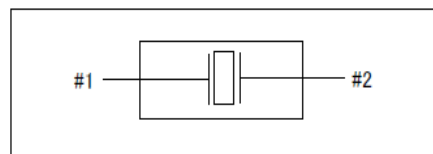
Conditions where not specified (Temperature: 25±2°C, DL;0.1μW)

Item	Symbol	Specifications	Conditions Note
Nominal Frequency	f_nom	32.768kHz	
Frequency Tolerance	f_tol	±20×10 <sup>-6</sup>	
Turnover Temperature	Ti	+25±5°C	
Parabolic Coefficient	B	(-3.0±1.0)×10 <sup>-8</sup> /°C <sup>2</sup>	
Load Capacitance	CL	7pF, 9pF, 12.5pF	
Motional Resistance (ESR)	R1	50kΩ Max.	
Absolute Max. Drive Level	DLmax.	1.0μW Max.	
Drive Level	DL	0.1μW typ.	
Shunt Capacitance	C0	1.0pF typ.	
Frequency Ageing	f_age	±3×10 <sup>-6</sup>	+25±3°C, First Year
Operating Temperature	T_use	-40~+85°C	
Storage Temperature	T_stg	-55~+125°C	Piece part basis

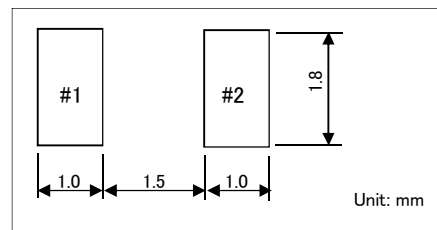
### Dimensions



### Internal Lead Connections



### Recommended Soldering Pattern



Remark: Please make sure that there is no pattern under SC-32 on the circuit board.

#### Seiko Instruments Inc.

Quartz Crystal Sales Department  
1-8, Nakase, Mihamaku, Chiba-shi, Chiba 261-8507, Japan  
Tel: +81-43-211-1207 Fax: +81-43-211-8030