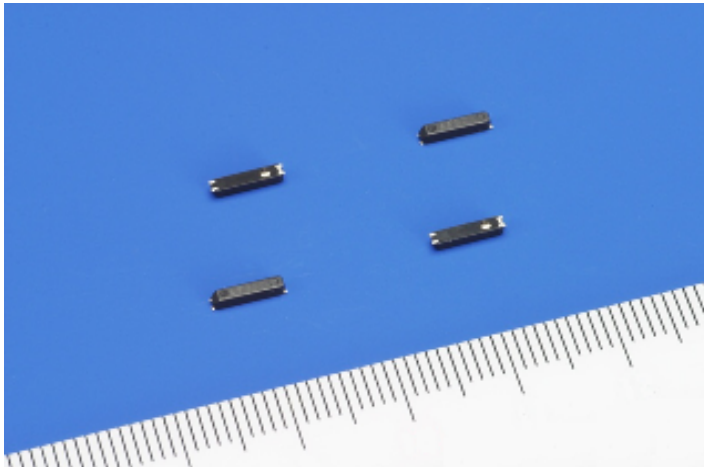




**THE DATASHEET OF
SSPT7F-9PF20-R**



SSP-T7-F



Features

- Thin type (1.4mm max.)
- SMD type suitable for automatic & high density surface mounting.
- Excellent shock and heat resistance.
- Complies with EU RoHS directive
- Halogen free
- A crystal resonator processed by high reliable photolithographic technology inside

Applications

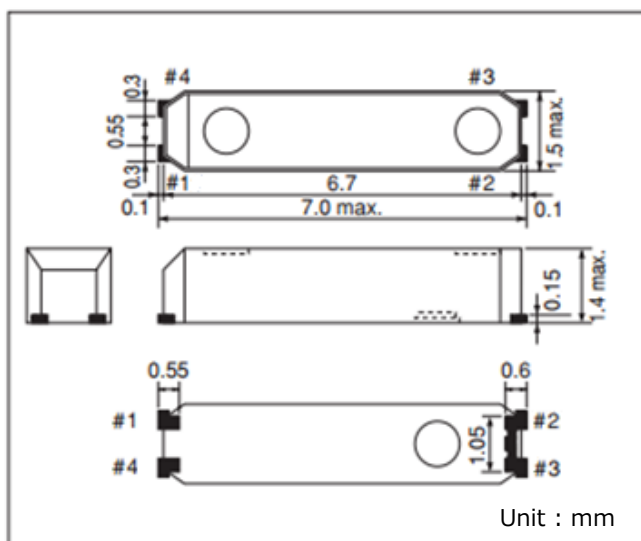
Mobile Phone, Wearable, Module, Sub-clock function for a variety of Micro-computer etc.

(Temperature: 25±2°C, DL;0.1μW)

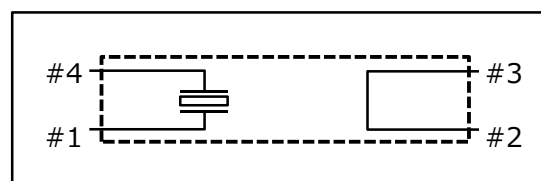
Standard Specifications

Item	Symbol	Specifications	Conditions Note
Nominal Frequency	f_nom	32.768kHz	
Frequency Tolerance	f_tol	±20×10 ⁻⁶	Please specify
Turnover Temperature	Ti	+25±5°C	
Parabolic Coefficient	B	(-0.033±10%)×10 ⁻⁶ /°C ²	
Load Capacitance	CL	7pF~12.5pF	
Motional Resistance (ESR)	R1	65kΩ max.	
Absolute Max. Drive Level	Dlmax.	1.0μW max.	
Drive Level	DL	0.1μW typ.	
Shunt Capacitance	C0	0.9pF typ.	
Frequency Ageing	f_age	±3×10 ⁻⁶	+25±3°C, First Year
Operating Temperature	T_use	-40~+85°C	
Storage Temperature	T_stg	-55~+125°C	Piece part basis

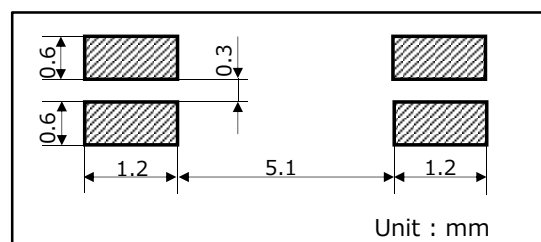
Dimensions



Internal Lead Connections



Recommended Soldering Pattern





Seiko Instruments Inc.

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 Tel : +81-43-211-1207 Fax : +81-43-211-8030
[http : //www.sii.co.jp/en/quartz/](http://www.sii.co.jp/en/quartz/)

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