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SP-T Series(SP-T1/SP-T2) Surface Mount Quartz Crystal Units for Low Frequencies

General Description

Surface Mount Quartz Crystal Units for Low Frequencies



Features

- Plastic mold package incorporated tubular type quartz crystal.
- Suitable for automatic and high density surface mounting.
- Excellent shock and heat resistance.

Applications

Radio Communication Equipment, Pagers, Cellular Phones, Camcorders, Portable Applications, Clock Source for Micro-Computers

Specifications

Conditions without notice (Temperature: +25°C±2°C)

Item	Symbol	Specifications		Conditions / Notes
Nominal Frequency	fo	32.768kHz	32kHz to 200kHz*	
Frequency Tolerance	$\Delta f/f_0$	±20ppm, ±50ppm, ±100ppm		
Turnover Temperature	Tp	+25°C±5°C	+25°C±8°C	
Temperature Coefficient	K	$(-3.5 \pm 0.8) \times 10^{-8}/^{\circ}\text{C}^2$		
Load Capacitance	CL	6.0 to 12.5pF		
Equivalent Series Resistance	R1	50kΩ max.		
Maximum Drive Level	DL max.	1μW		
Recommended Drive Level	DL	0.1μW		
Shunt Capacitance	C0	1.0pF typ.	0.95pF typ.	
Aging	$\Delta f/f_0$	±5ppm max.		+25°C±3°C、First Year
Operating Temperature Range	Tope	-40°C to +85°C		
Storage Temperature Range	Tsto	-55°C to +125°C		
Reflow Profile	Tsol	230°C max., 20sec. max. x 2 times		IR Reflow

* Please feel free to contact us for inquiries about other frequencies in need.



