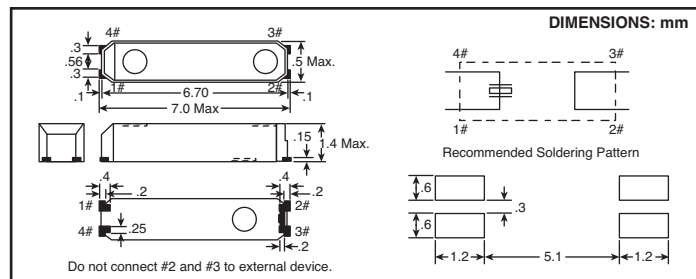


SSP-T7 SERIES

Seiko Instruments is an industry leader in developing miniature and thin quartz crystals using its unique photo lithographic technology. Since 1970, Seiko Instruments has produced crystals and oscillators for a variety of applications including facsimile, communications and telecommunications equipment, cellular telephones, pocket pagers, real-time clocks and electronics test and medical equipment. Outstanding reliability and miniature size with excellent shock and vibration resistance over a wide temperature range make Seiko Instruments' quartz crystals and oscillators ideal for many applications.

**Specifications:**

- Operating temperature range: -40°C ~ +85°C
- Frequency tolerance: ± 20 ppm
- Load capacitance: 12.5 pF
- Equivalent series resistance: 65k Ω max.
- Drive level: 1.0 μ W max.
- Shunt capacitance: 0.8 pF typ.
- Aging: ± 3 ppm max.

Features:

- Ultra thin type with height 1.4mm max.
- SMD type suitable for automatic and high density surface mounting
- Plastic mold package containing highly reliable tubular type quartz crystal
- Excellent shock and heat resistance

Applications:

- Radio communications equipment
- Portable applications
- PDA
- Cell phones
- DVC



RoHS Compliant

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Frequency (KHz)	Price Each			
			1	10	100	500
628-SSPT7-F-0368	SSP-T7F-12.5PF20PPM	32.768	1.00	.84	.76	.72

VT-200 SERIES

Specifications:

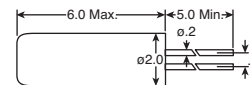
- Operating temperature range: -10°C ~ +60°C
- Frequency tolerance: ± 20 ppm
- Load capacitance: 12.5 pF
- Equivalent series resistance: 50k Ω max.
- Drive level: 1.0uW max.
- Shunt capacitance: 0.8 pF typ.
- Aging: ± 5 ppm max.

Applications:

- Radio communications equipment
- Portable applications
- Clock source for microcomputers
- Pagers

Features:

- Compact tubular package
- Photolithographic process
- Excellent shock resistance and environmental characteristics



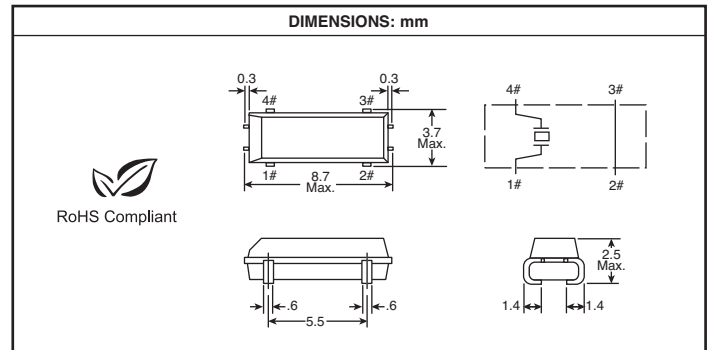
RoHS Compliant

DIMENSIONS: mm

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Frequency (MHz)	Price Each			
			1	10	100	500
628-VT200-F-0368	VT-200-F 32.768KHZ	32.768	.32	.28	.24	.20

AP-2B SERIES

**Specifications:**

- Operating temperature range: -40°C ~ +85°C
- Frequency tolerance: ± 20 ppm
- Load capacitance: 12.5 pF
- Equivalent series resistance: 50k Ω max.
- Drive level: 1.0 μ W max.
- Shunt capacitance: 1.0 pF typ.
- Aging: ± 5 ppm max.

Features:

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

Applications:

- Radio communications equipment
- Portable applications
- Clock source for microcomputers
- Pagers
- Cell phones
- Camcorders

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Lead Connection	Freq. (KHz)	Price Each			
				1	10	100	500
628-SPT2A-F-0368	SP-T2AF-125PF20PPM	SP-T2A	32.768	.70	.60	.45	.40