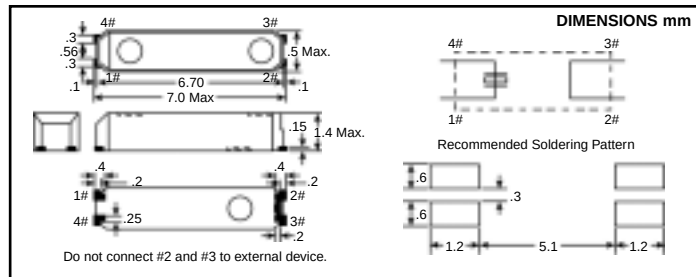


SEIKO Tuning Fork Crystals



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: +/- 20ppm
- Load capacitance: 12.5 pF
- Equivalent series resistance: 65kΩ max.
- Drive level: 1.0μW max.
- Shunt capacitance: 0.8 pF typ.
- Aging: +/- 3ppm 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

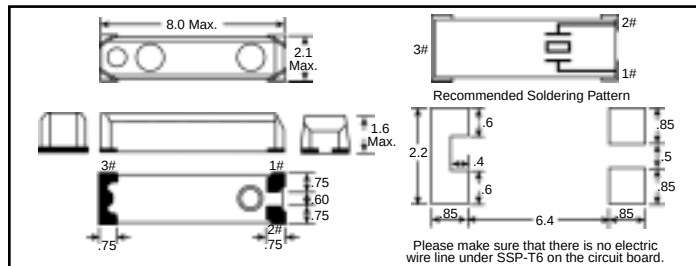
Applications:

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

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Frequency (kHz)	Price Each			
			1	10	100	500
628-SSPT7-0368	SSP-T7 32.768KHZ	32.768	1.25	1.05	.95	.90

SSP-T6 SERIES



Specifications:

- Operating temperature range: - 40°C ~ + 85°C
- Frequency tolerance: +/- 20ppm
- Load capacitance: 12.5 pF
- Equivalent series resistance: 55kΩ max.
- Drive level: 1.0μW max.
- Shunt capacitance: 0.95 pF typ.
- Aging: +/- 3ppm max.

Features:

- Ultra thin type with height 1.6mm max.
- Ultra small mounting area of 16.8mm²
- SMD type suitable for automatic and high density surface mounting
- Plastic mold package incorporated tubular type quartz crystal
- Excellent shock and heat resistance

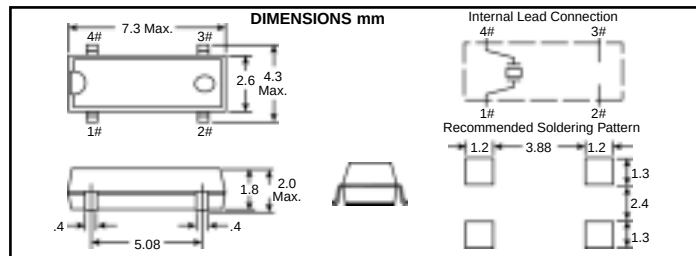
Applications:

- Radio communications equipment
- Cell phones
- Pagers
- Portable applications

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Frequency (kHz)	Price Each			
			1	10	100	500
628-SSPT6-0368	SSP-T6 32.768KHZ	32.768	1.00	.84	.76	.72

SSP-T3 SERIES



Specifications:

- Operating temperature range: - 40°C ~ + 85°C
- Frequency tolerance: +/- 20ppm
- Load capacitance: 12.5 pF
- Equivalent series resistance: 55kΩ max.
- Drive level: 1.0μW max.
- Shunt capacitance: 0.9 pF typ.
- Aging: +/- 3ppm max.

Features:

- Low height 2.0mm max
- Plastic mold package incorporated tubular type quartz crystal
- Suitable for automatic and high density surface mounting
- Excellent shock and heat resistance

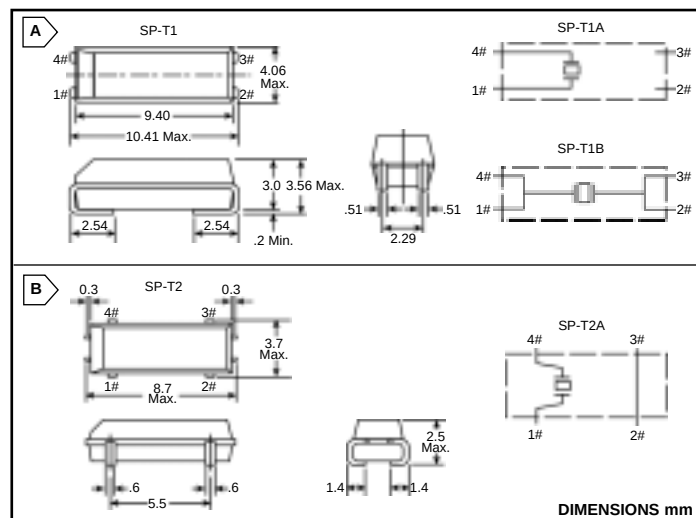
Applications:

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

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Frequency (kHz)	Price Each			
			1	10	100	500
628-SPT3A-0368	SP-T3A 32.768KHZ	32.768	.88	.74	.67	.63

SP-T1A/SP-T1B/AP-2B SERIES



Specifications:

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

Features:

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

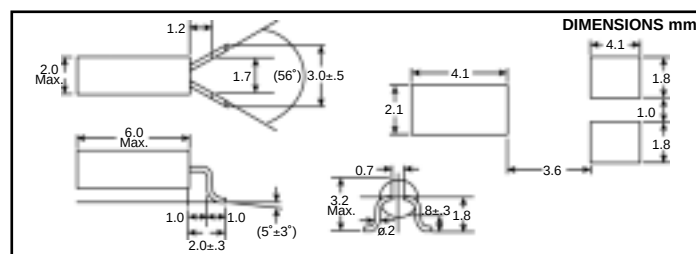
Applications:

- 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.	Fig.	Lead Connection	Freq. (kHz)	Price Each			
					1	10	100	500
628-SPT1A-0368	SP-T1A 32.768KHZ	A	SP-T1A	32.768	.80	.67	.61	.58
628-SPT1B-0368	SP-T1B 32.768KHZ	A	SP-T1B	32.768	.80	.67	.61	.58
628-SPT2A-0368	SP-T2A 32.768KHZ	B	SP-T2A	32.768	.75	.63	.57	.54

HTF-VT SERIES



Specifications:

- Operating temperature range: - 40°C ~ + 85°C
- Frequency tolerance: +/- 20ppm
- Load capacitance: 12.5 pF
- Equivalent series resistance: 50kΩ max.
- Drive level: 1.0μW max.
- Shunt capacitance: 0.8 pF typ.
- Aging: +/- 3ppm max.

Features:

- IR reflowable tubular type crystal with lead bent in tape/reel
- Suitable for automatic and high density surface mounting
- Excellent shock and heat resistance

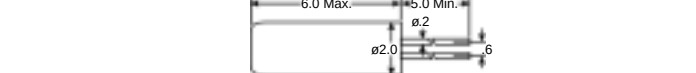
Applications:

- 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.	Frequency (kHz)	Price Each			
			1	10	100	500
628-HTFVT200-0368	HTF-VT200	32.768	.70	.59	.53	.50

VT-200 SERIES



Specifications:

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

Features:

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

Applications:

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

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Frequency (kHz)	Price Each			
			1	10	100	500
628-VT200-0368	VT-200 32.768KHZ	32.768	.25	.21	.19	.18