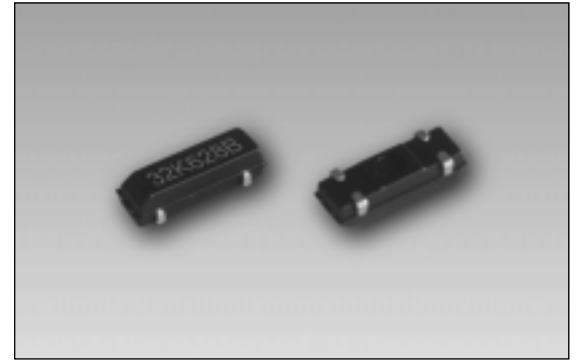


# HE-T1-32S SURFACE MOUNT WATCH CRYSTAL

The HE-T1-32S is a miniature surface mount watch crystal in a slim housing of only 2.5 mm height, encased in a rugged thermoplastic package. This crystal is ideal for applications requiring durability and a limited circuit space for the watch crystal frequency. Two different footprint options satisfy various pattern layout requirements.

## FEATURES:

- Low profile only 2.5 mm high
- Industry Standard footprint
- Long Term Stability
- Tape and reel packaging (3,000 PC per reel)

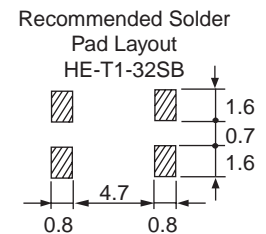
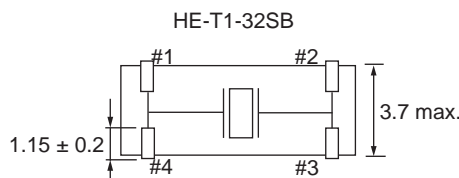
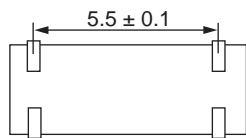
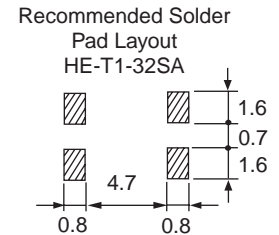
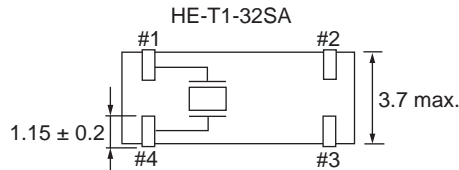
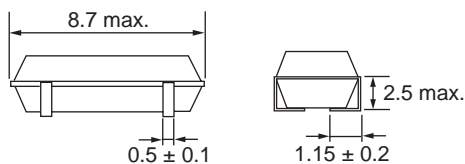


## ELECTRICAL SPECIFICATIONS / PART NUMBERING GUIDE

PARAMETERS	CONDITION	MINIMUM	STANDARD	MAXIMUM	UNIT
FREQUENCY RANGE			32.768		KHz
FREQUENCY TOLERANCE	at 25°C	-20		+20	PPM
FREQUENCY STABILITY	Parabolic Coefficient	-0.027	-0.035	-0.043	PPM / °C
OPERATING TEMPERATURE		-40°C to +85°C			°C
TURNOVER TEMPERATURE		+25°C ± 5°C			°C
STORAGE TEMPERATURE		-55°C to +125°C			°C
LOAD CAPACITANCE (C <sub>L</sub> )		6.0		12.5	pF
SHUNT CAPACITANCE (C <sub>O</sub> )			1.0		pF
MOTIONAL CAPACITANCE (C <sub>1</sub> )			2.0		fF
EQUIV. SERIES RESISTANCE				50	K Ω
INSULATION RESISTANCE		500			M Ω
DRIVE LEVEL				1.0	uW
AGING CHARACTERISTICS		±3 PPM MAX. @ 25°C PER YEAR			

HE-T1-32S	A	-6PF
Package	Pad Layout	Capacitance Load (6pF or 12.5pF)

## MECHANICAL DRAWING



Unit: mm