SUNTSU

Cylindrical Watch Crystal

SWT622 Series

6.2mm x 2.1mm

Features

- ±10ppm (Tolerance) Available
- Miniature Package

Applications

- Real Time Clock
- Measurement instruments
- Wireless Applications

Part Numbering Guide

SWT 62 2 12 D 48 - 32.768K

- **SUNTSU WATCH CRYSTAL**
- **6.2mm x 2.1mm**
- **2 LEAD**
- **LOAD CAPACITANCE**
  - 18 : 18.0pF
  - 12 : 12.5pF
  - 10: 10.0pF
  - 8 : 8.0pF
  - 6 : 6.0pF
- **FREQUENCY TOLERANCE**
  - D : ±20ppm
  - F : ±10ppm
- **OPERATING TEMPERATURE RANGE**
  - 16 : -10°C - +60°C
  - 48 : -40°C - +85°C
- **FREQUENCY** kHz

RoHS COMPLIANT

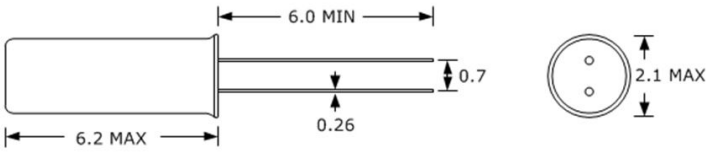
Cage Code: 4GUT4

To customize your parameters contact a Suntsu representative.

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	kHz		32.768		
Frequency Tolerance at +25°C	ppm	-20		+20	See part numbering guide for options.
Frequency Stability vs. Aging	ppm	-3		+3	First year @ +25°C.
Frequency Coefficient (ß)	ppm/T²	-0.040	-0.035	-0.030	
Operating Temperature	°C	-40		+85	See part numbering guide for options.
Turnover Temperature	°C	+20	+25	+30	
Storage Temperature	°C	-55		+125	
Load Capacitance	pF	6		18	See part numbering guide for options.
Shunt Capacitance	pF		1.5		
Drive Level	µW			1	
Insulation Resistance	MΩ	500			@ 100VDC ± 15V.
Equivalent Series Resistance	kΩ			50	

Outline Drawing & Part Marking

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



Line 1: XX.XXX Y WW

Frequency in kHz

Year

Week

Environmental Specifications		Mechanical Specifications	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	MIL-STD-202, Method 213, Condition B
Fine Leak Test	MIL-STD-883, Method 1014, Condition A	Vibration	MIL-STD-883, Method 2007, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K
Moisture Resistance	MIL-STD-883, Method 1004	Resistance to Solvents	MIL-STD-202, Method 215
Moisture Sensitivity	Hermetically Sealed, MSL=N/A: Not Applicable	Solderability	MIL-STD-883, Method 2003

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