

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - ±10ppm (Tolerance) Available - RoHS Compliant - Miniature Package 	<ul style="list-style-type: none"> - Real Time Clock - Measurement instruments - Wireless Applications



PART NUMBERING GUIDE

SUNTSU WATCH CRYSTAL → **SWT 62 2 12 D 48 - 32.768kHz** ← **FREQUENCY (kHz)**

6.2mm x 2.1mm → (points to 62)

2 LEAD → (points to 2)

LOAD CAPACITANCE

- 18: 18.0pF
- 12: 12.5pF
- 10: 10.0pF
- 8: 8.0pF
- 6: 6.0pF

OPERATING TEMPERATURE RANGE

16: -10°C to + 60°C

48: -40°C to + 85°C

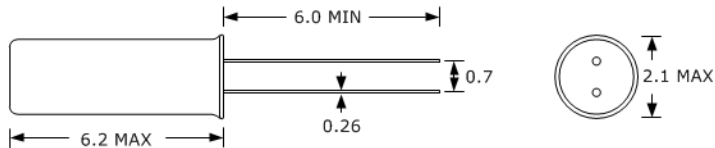
FREQUENCY TOLERANCE

D: ±20ppm

F: ±10ppm

Cage Code: 4GUT4
To customize your parameters contact a Suntsu representative.

ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	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 (β)	ppm/T ²	-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		12.5		See part numbering guide for options.
Shunt Capacitance	pF		1.5		
Drive Level	μW			1	
Insulation Resistance	MΩ	500			@ 100V _{DC} ± 15V.
Equivalent Series Resistance	kΩ			50	

OUTLINE DRAWING	MARKING
 <p>NOTE: Dimensions in millimeters (mm).</p>	<p style="text-align: center;">Line 1: <u>XX.XXX</u> <u>Y</u> <u>WW</u></p> <p style="text-align: center;">Frequency in kHz Year Week</p>

ENVIRONMENTAL SPECIFICATIONS		MECHANICAL SPECIFICATIONS	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Moisture Resistance	MIL-STD-883, Method 1004
Fine Leak Test	MIL-STD-883, Method 1014, Condition A	Moisture Sensitivity	Hermetically Sealed, MSL=N/A: Not Applicable
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	J-STD-020, MSL 1	Solderability	MIL-STD-883, Method 2003