SWT832 SERIES

8.3mm x 3.2mm CYLINDRICAL WATCH CRYSTAL

FEATURES	APPLICATIONS
- ±10ppm (Tolerance) Available - RoHS Compliant - Miniature Package	- Real Time Clock - Measurement instruments - Wireless Applications

PART NUMBERING GUIDE

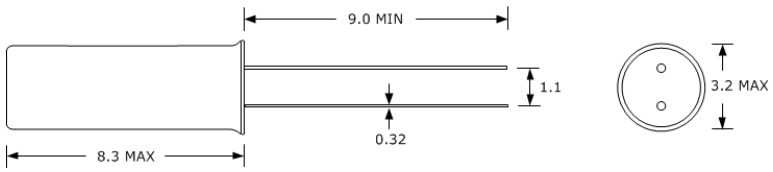
SWT 83 2 12 D 48 – 32.768kHz

- SUNTSU WATCH CRYSTAL
- 8.3mm x 3.2mm
- 2 LEAD
- LOAD CAPACITANCE
  - 18: 18.0pF
  - 12: 12.5pF
  - 8: 8.0pF
  - 7: 7.0pF
  - 6: 6.0pF
- FREQUENCY (kHz)
- 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 +25ºC	ppm	-20		+20	See part numbering guide for options.
Frequency Stability vs. Aging	ppm	-3		+3	First year @ +25ºC.
Frequency Coefficient (ß)	ppm/T^2	-0.040	-0.035	-0.030	
Operating Temperature	ºC	-40		+85	See part numbering guide for options.
Turnover Temperature	ºC	+20	+25	+30	
Storage Temperature	ºC	-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			35	

OUTLINE DRAWING



NOTE: Dimensions in millimeters (mm).

MARKING

Line 1: XX.XXX F Y WW

- XX.XXX: Frequency in kHz
- F: Manufacturing Identifier
- Y: Year
- WW: Week

ENVIRONMENTAL SPECIFICATIONS		MECHANICAL SPECIFICATIONS	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	MIL-STD-202, Method 213, Condition C
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	J-STD-020, MSL 1	Solderability	MIL-STD-883, Method 2003