

Features

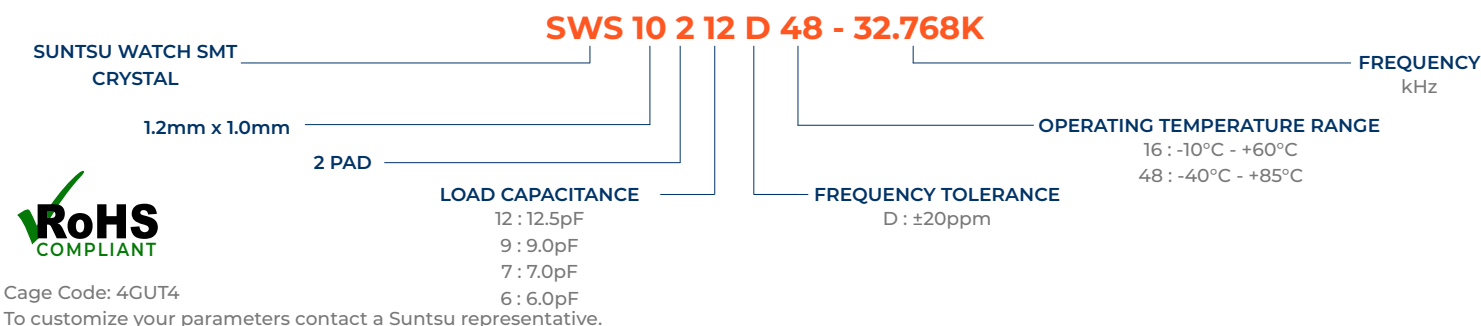
- ± 20 ppm (Tolerance) Available
- Ultra-Miniature Package
- Tape and Reel

Applications

- Real Time Clock
- Measurement instruments
- Wireless Applications



Part Numbering Guide

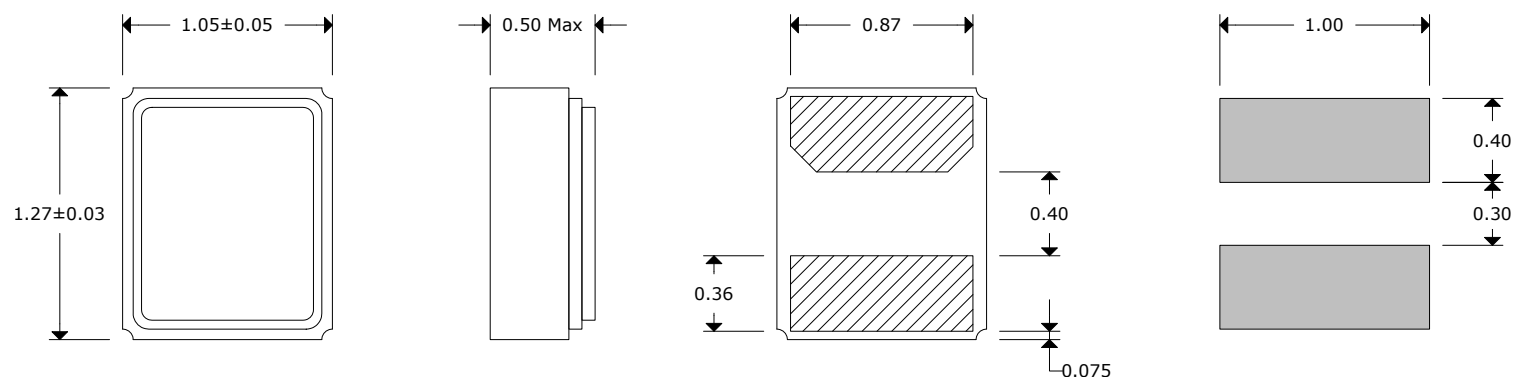


SWS 10 2 12 D 48 - 32.768K

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	kHz		32.768		
Frequency Tolerance at +25°C	ppm	-20		20	
Frequency Stability vs. Aging	ppm	-5		5	First year @ +25°C.
Frequency Coefficient (β)	ppm/T ²	-0.0324	-0.036	-0.0396	
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		1.4		
Drive Level	μW		0.1	0.3	
Insulation Resistance	M Ω	500			@ 100VDC $\pm$ 15V.
Equivalent Series Resistance	k Ω			90	

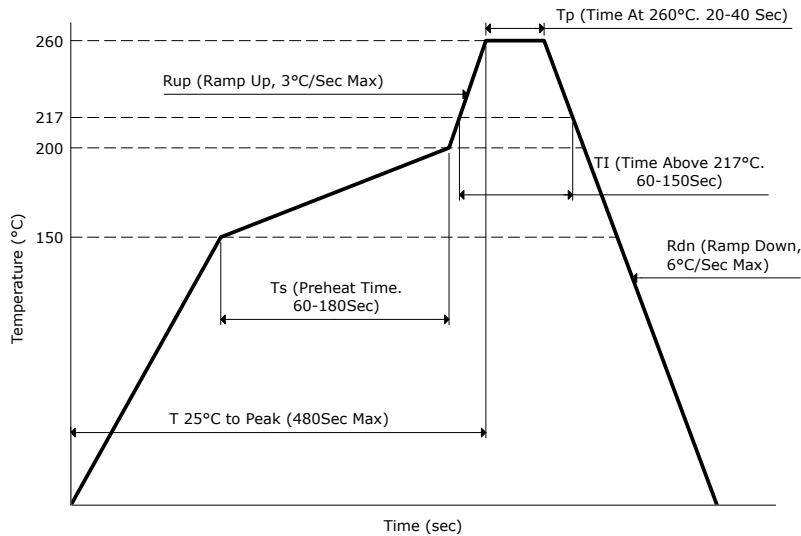
Outline Drawing & Recommended Land Pattern

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



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	J-STD-020, MSL 1	Solderability	MIL-STD-883, Method 2003

Reflow Profile & Part Marking



Line 1 : **X Y W W**

Load
Capacitance

A : 6pF

B : 7pF

J : 9pF

F : 12.5pf

Week

Year

Tape And Reel Dimensions

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

5,000pcs / Reel

