SUNTSU

SMT 2 Pad Crystal

SXTHM2 Series

HC-49/US

Features

- ±10ppm/±10ppm (Tolerance/Stability) Available
- RESISTANCE WELD
- AT-Cut or BT-Cut
- Tape and Reel

Applications

- Microprocessors
- Computers
- Modems
- Wireless Applications

Part Numbering Guide

SXT HM 2 18 A A 48 4 T - 4.000M

- **SUNTSU CRYSTAL**
- **HC-49/US SMT**
- **2 PAD**
- **LOAD CAPACITANCE**: S : Series; 7-30 : 7pF - 30pF
- **FREQUENCY TOLERANCE**: A : ±50ppm / B : ±30ppm; C : ±25ppm / D : ±20ppm; E : ±15ppm / F : ±10ppm
- **FREQUENCY STABILITY**: A : ±50ppm / B : ±30ppm; C : ±25ppm / D : ±20ppm; E : ±15ppm / F : ±10ppm*
- **OPERATING TEMPERATURE RANGE****: 07 : 0°C - +70°C; 16 : -10°C - +60°C; 17 : -10°C - +70°C; 27 : -20°C - +70°C; 38 : -30°C - +85°C; 48 : -40°C - +85°C
- **HEIGHT OF PACKAGE**: 4 : 4.5mm Max; 3 : 3.2mm Max
- **MODE OF OPERATION**: BLANK : Fundamental; T : 3rd Overtone; B : BT-Cut Fundamental
- **FREQUENCY**: MHz

RoHS COMPLIANT

Cage Code: 4GUT4

To customize your parameters contact a Suntsu representative.

* For frequency stability option F contact a Suntsu representative. ** For operating temperatures of -55-125°C a Suntsu representative.

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	3		40	AT-Cut Fundamental
Frequency Range	MHz	20		50	3rd Overtone
Frequency Range	MHz	24		90	See part numbering guide for options.
Frequency Tolerance at +25°C	ppm	-10		+10	See part numbering guide for options.
Frequency Stability v's Op Temp	ppm	-10		+10	See part numbering guide for options.
Frequency Stability v's Aging	ppm	-3		+3	First year @ +25°C.
Operating Temperature	°C	-40		+85	See part numbering guide for options.
Storage Temperature	°C	-40		+125	
Load Capacitance	pF	7		30	See part numbering guide for options.
Shunt Capacitance	pF			7	
Drive Level	µW		100	500	
Insulation Resistance	MΩ	500			@ 100VDC ± 15V.
3.000MHz ~ 3.799MHz	Ω			180	AT-Cut Fundamental
3.800MHz ~ 4.499MHz	Ω			150	AT-Cut Fundamental
4.500MHz ~ 5.999MHz	Ω			120	AT-Cut Fundamental
6.000MHz ~ 7.999MHz	Ω			100	AT-Cut Fundamental
8.000MHz ~ 9.999MHz	Ω			80	AT-Cut Fundamental
ESR - 10.000MHz ~ 12.999MHz	Ω			60	AT-Cut Fundamental
13.000MHz ~ 19.999MHz	Ω			50	AT-Cut Fundamental
20.000MHz ~ 40.000MHz	Ω			30	AT-Cut Fundamental
20.000MHz ~ 50.000MHz	Ω			40	BT-Cut Fundamental
24.000MHz ~ 39.999MHz	Ω			100	3rd Overtone
40.000MHz ~ 90.000MHz	Ω			80	3rd Overtone

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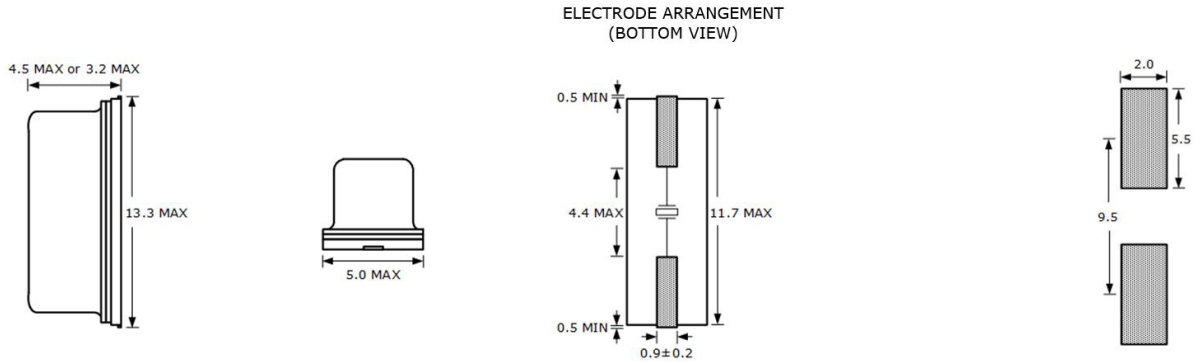
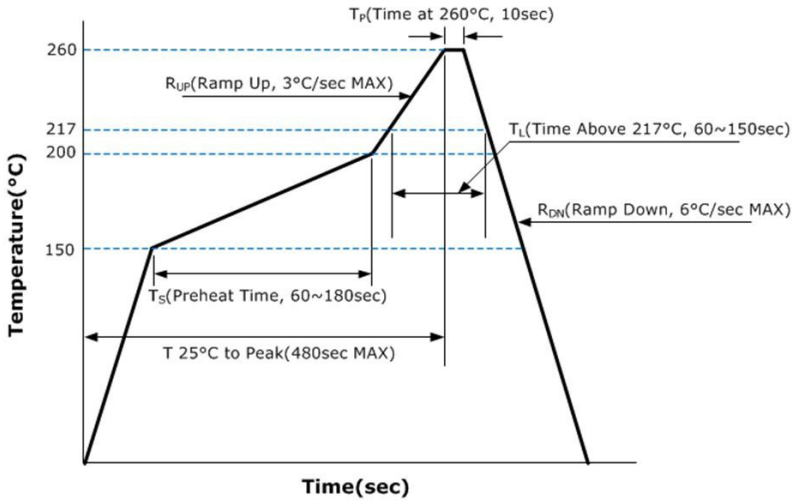
SXTHM2 Series
HC-49/US

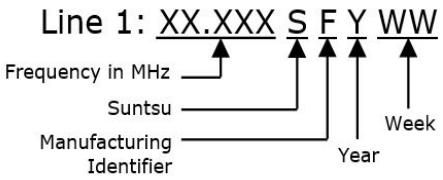
Outline Drawing & Land Pattern

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



Reflow Profile & Part Marking





Tape And Reel Dimensions

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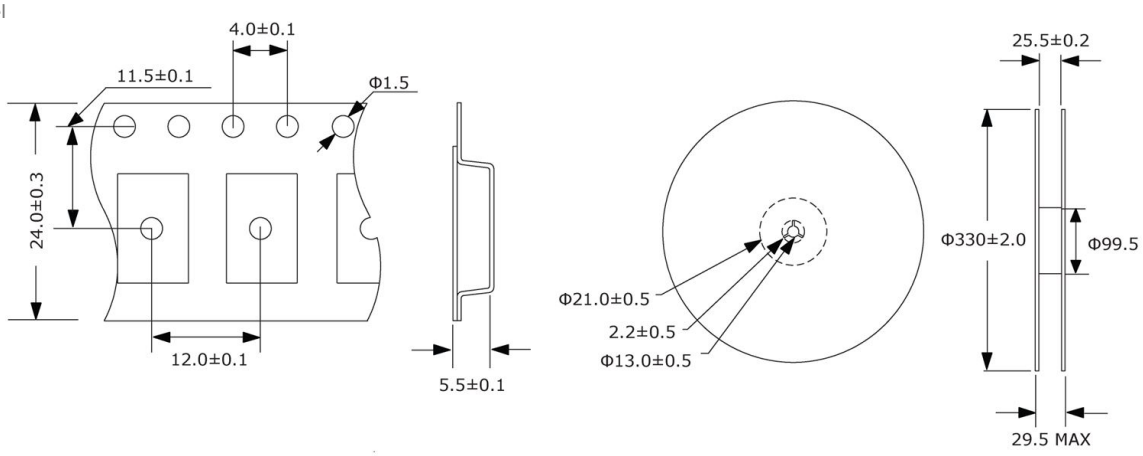
1,000pcs / Reel



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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

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