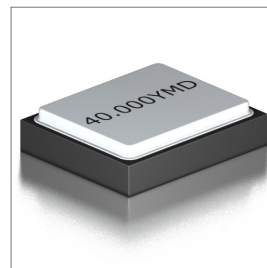


Features

- $\pm 10\text{ppm}/\pm 10\text{ppm}$ (Tolerance/Stability) Available
- Ultra-Miniature Package
- AT-Cut Fundamental
- Tape and Reel

Applications

- Bluetooth
- Wireless LAN
- High Density Applications



Part Numbering Guide

SXT 10 4 10 A A 48 - 40.000M

SUNTSU CRYSTAL

1.2mm x 1.0mm

4 PAD

LOAD CAPACITANCE
5-10 : 5pF - 10pF

FREQUENCY TOLERANCE

A : $\pm 50\text{ppm}$
 B : $\pm 30\text{ppm}$
 C : $\pm 25\text{ppm}$
 D : $\pm 20\text{ppm}$
 E : $\pm 15\text{ppm}$
 F : $\pm 10\text{ppm}$

FREQUENCY STABILITY

A : $\pm 50\text{ppm}$
 B : $\pm 30\text{ppm}$
 C : $\pm 25\text{ppm}$
 D : $\pm 20\text{ppm}$
 E : $\pm 15\text{ppm}$
 F : $\pm 10\text{ppm}$ *

OPERATING TEMPERATURE RANGE**

07 : $0^{\circ}\text{C} - +70^{\circ}\text{C}$
 16 : $-10^{\circ}\text{C} - +60^{\circ}\text{C}$
 17 : $-10^{\circ}\text{C} - +70^{\circ}\text{C}$
 27 : $-20^{\circ}\text{C} - +70^{\circ}\text{C}$
 38 : $-30^{\circ}\text{C} - +85^{\circ}\text{C}$
 48 : $-40^{\circ}\text{C} - +85^{\circ}\text{C}$

FREQUENCY
MHz



Cage Code: 4GUT4

To customize your parameters contact a Suntsu representative.

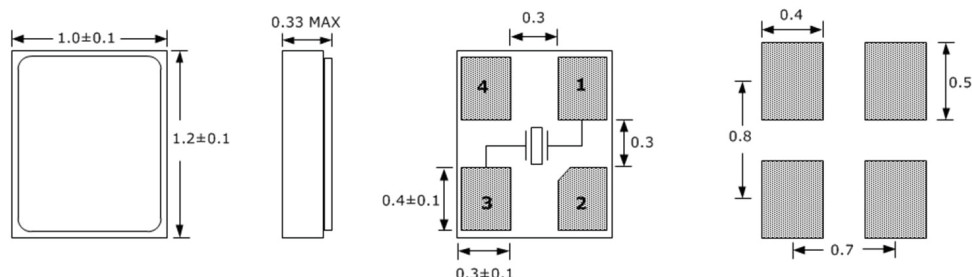
* For frequency stability option F contact a Suntsu representative. ** For operating temperatures of -55 - 125°C a Suntsu representative.

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	36		80	AT-Cut Fundamental.
Frequency Tolerance at $+25^{\circ}\text{C}$	ppm	-10		+10	See part numbering guide for options.
Frequency Stability vs. Op Temp	ppm	-10		+10	See part numbering guide for options.
Frequency Stability vs. Aging	ppm	-2		+2	First year @ $+25^{\circ}\text{C}$.
Operating Temperature	$^{\circ}\text{C}$	-40		+85	See part numbering guide for options.
Storage Temperature	$^{\circ}\text{C}$	-40		+125	
Load Capacitance	pF	5		10	
Shunt Capacitance	pF			5	See part numbering guide for options.
Drive Level	μW		10	100	
Insulation Resistance	M Ω	500			@ 100VDC $\pm 15\text{V}$.
8.000MHz ~ 11.999MHz	Ω			150	AT-Cut Fundamental
ESR - 12.000MHz ~ 19.999MHz	Ω			80	AT-Cut Fundamental
20.000MHz ~ 29.999MHz	Ω			60	AT-Cut Fundamental

Outline Drawing & Recommended Landed Pattern

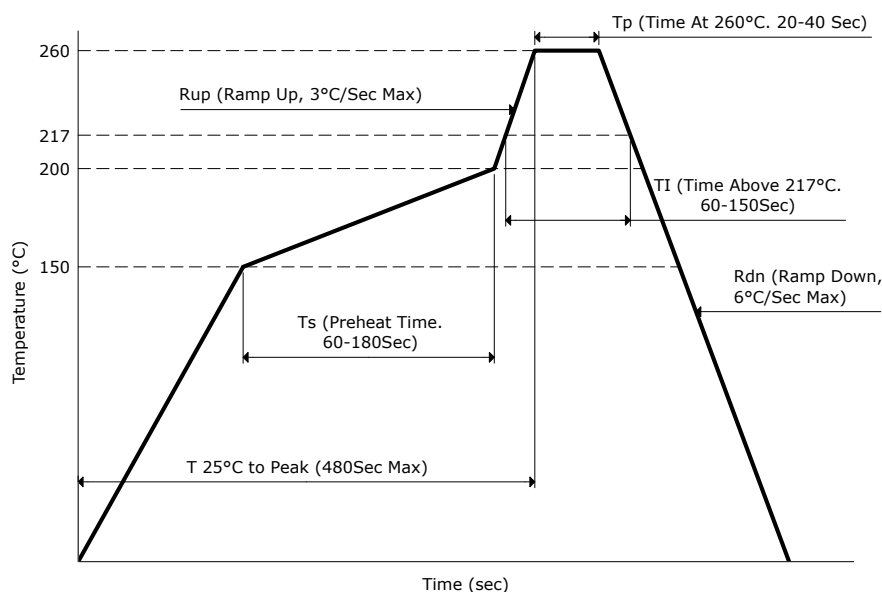
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.

ELECTRODE ARRANGEMENT
(BOTTOM VIEW)



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: **AYMD**

Frequency → ↑ ↑ ↑ ↑

Day
Month
Year

Tape And Reel Dimensions

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

5,000pcs / Reel

