

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - $\pm 10\text{ppm}/\pm 10\text{ppm}$ (Tolerance/Stability) Available - AT-Cut Fundamental - RoHS Compliant - Tape and Reel 	<ul style="list-style-type: none"> - Microprocessors - PCMCIA - Communication - Test Equipment



PART NUMBERING GUIDE

SUNTSU CRYSTAL → **SXT 75 4 18 A A 48 T - 27.000M** ← **FREQUENCY (MHz)**

7.0mm x 5.0mm (points to SXT)
4 PAD (points to 75)
LOAD CAPACITANCE (points to 4)
S: SERIES (points to 18)
7 - 30: 7pF - 30pF (points to 18)
FREQUENCY TOLERANCE (points to A A)
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: $\pm 10\text{ppm}$

MODE OF OPERATION
 BLANK: FUNDAMENTAL
 T: THIRD OVERTONE
OPERATING TEMPERATURE RANGE**
 07: 0°C to + 70°C
 16: -10°C to + 60°C
 17: -10°C to + 70°C
 27: -20°C to + 70°C
 38: -30°C to + 85°C
 48: -40°C to + 85°C
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: $\pm 10\text{ppm}$ *

Cage Code: 4GUT4
 To customize your parameters contact a Suntsu representative.
 * For frequency stability option F contact a Suntsu representative.
 ** For operating temperatures up to -55~125°C contact a Suntsu representative.

ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range	MHz	6		50	AT-Cut Fundamental.
		30		125	3 rd Overtone.
Frequency Tolerance at +25°C	ppm	-10		+10	See part numbering guide for options.
Frequency Stability vs. Operating Temperature (Ref. 25°C)	ppm	-10		+10	See part numbering guide for options.
vs. Aging		-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			@ 100V _{DC} ± 15V.
Equivalent Series Resistance	6.000MHz ~ 11.999MHz			100	AT-Cut Fundamental.
	12.000MHz ~ 15.999MHz			70	AT-Cut Fundamental.
	16.000MHz ~ 50.000MHz			50	AT-Cut Fundamental.
	30.000MHz ~ 125.000MHz			80	3 rd Overtone.

OUTLINE DRAWING

ELECTRODE ARRANGEMENT (BOTTOM VIEW)

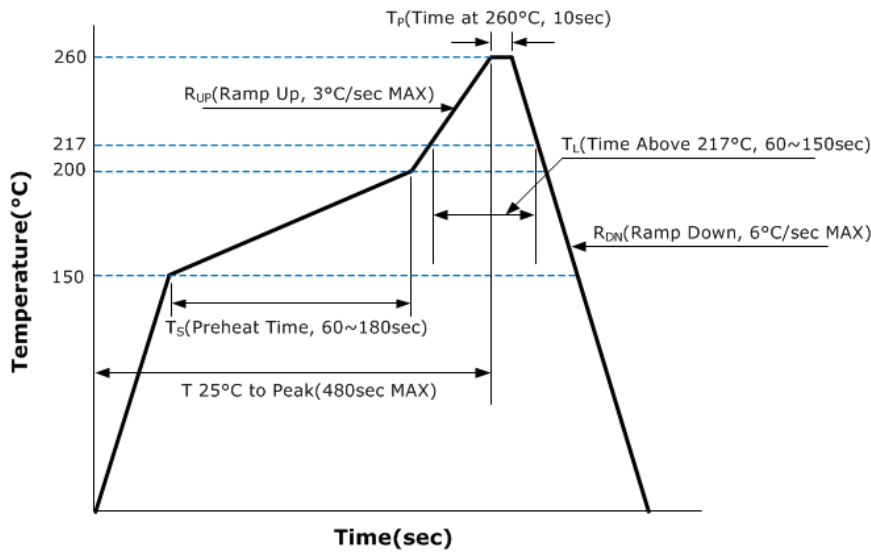
RECOMMENDED LAND PATTERN

NOTE: Dimensions in millimeters (mm).

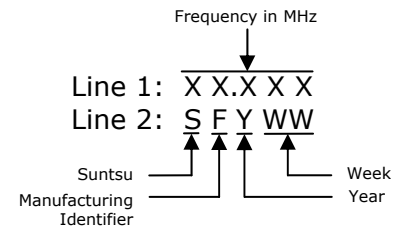
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

Temperature Cycling	MIL-STD-883, Method 1010, Condition B
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Vibration	MIL-STD-883, Method 2007, Condition A
Moisture Resistance	MIL-STD-883, Method 1004
Moisture Sensitivity	J-STD-020, MSL 1
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K
Resistance to Solvents	MIL-STD-202, Method 215
Solderability	MIL-STD-883, Method 2003

REFLOW PROFILE

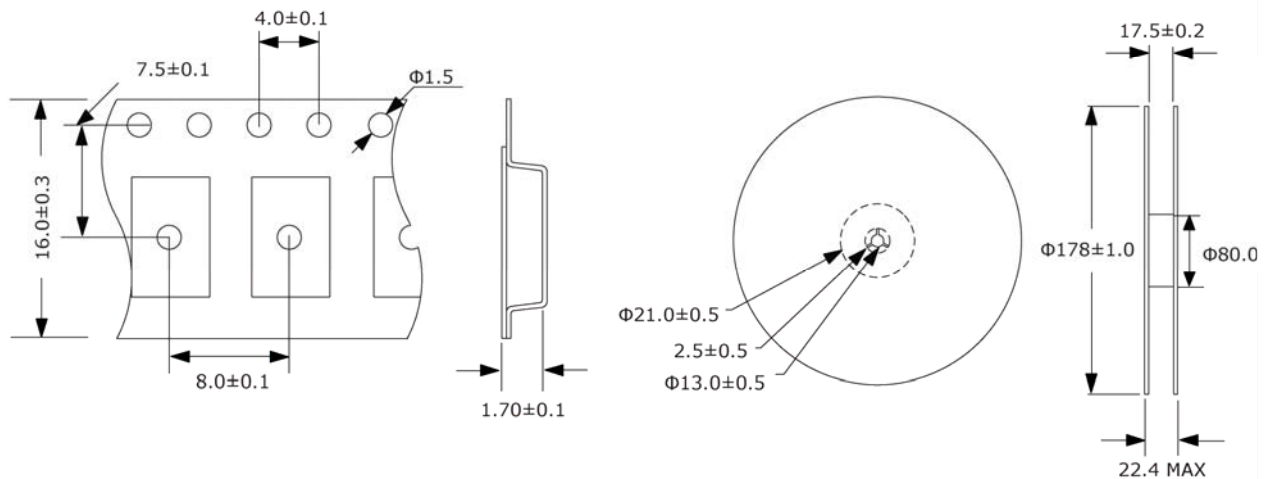


MARKING



TAPE AND REEL DIMENSIONS

1,000pcs/reel



NOTE: Dimensions in millimeters (mm); drawing is not to scale.