SXT224 SERIES

2.5mm x 2.0mm CERAMIC SMT 4 PAD CRYSTAL

FEATURES	APPLICATIONS
- ±10ppm/±10ppm (Tolerance/Stability) Available - Ultra-Miniature Package - AT-Cut Fundamental - RoHS Compliant - Tape and Reel	- Bluetooth - PCMCIA - Wireless Applications - Computers and Modems - High Density Applications

PART NUMBERING GUIDE

SXT 22 4 18 A A 48 - 20.000M

SUNTSU CRYSTAL

2.5mm x 2.0mm

4 PAD

LOAD CAPACITANCE
S: SERIES
8 - 20: 8pF – 20pF

FREQUENCY TOLERANCE
A: ±50ppm
B: ±30ppm
C: ±25ppm
D: ±20ppm
E: ±15ppm
F: ±10ppm

FREQUENCY (MHz)

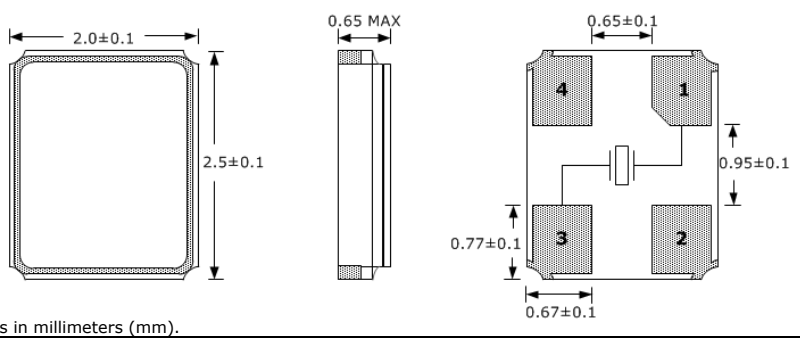
OPERATING TEMPERATURE RANGE**
07: 0°C to + 70°C
16: -10°C to + 60°C
17: -10°C to + 70°C
27: -20°C to + 70°C
38: -30°C to + 85°C
48: -40°C to + 85°C

FREQUENCY STABILITY
A: ±50ppm
B: ±30ppm
C: ±25ppm
D: ±20ppm
E: ±15ppm
F: ±10ppm*

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	12		66	AT-Cut Fundamental.
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			-2		2	First year @ +25°C.
Operating Temperature		°C	-40		+85	See part numbering guide for options.
Storage Temperature		°C	-40		+125	
Load Capacitance		pF	8		20	See part numbering guide for options.
Shunt Capacitance		pF			5	
Drive Level		µW		50	100	
Insulation Resistance		MΩ	500			@ 100VDC ± 15V.
Equivalent Series Resistance	12.000MHz ~ 15.999MHz	Ω			120	AT-Cut Fundamental.
	16.000MHz ~ 19.999MHz				100	AT-Cut Fundamental.
	20.000MHz ~ 29.999MHz				80	AT-Cut Fundamental.
	30.000MHz ~ 39.999MHz				60	AT-Cut Fundamental.
	40.000MHz ~ 66.000MHz				50	AT-Cut Fundamental.

OUTLINE DRAWING

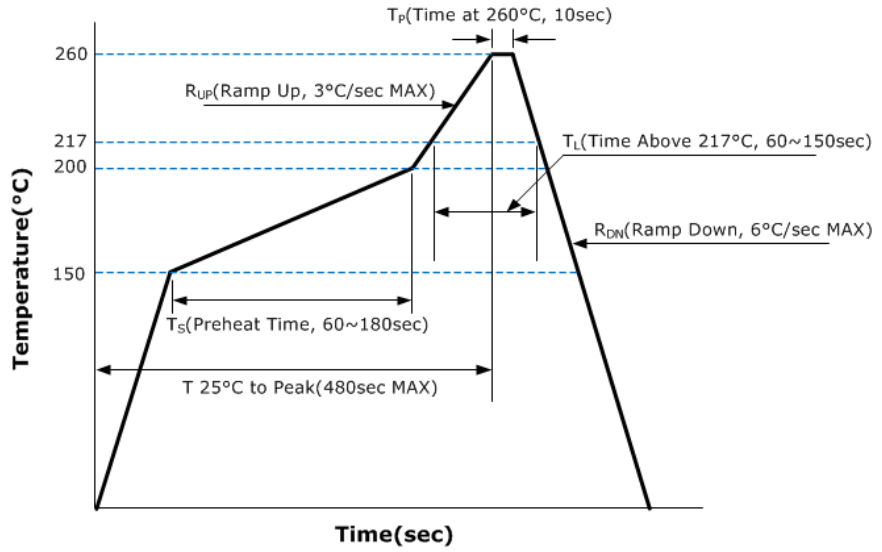


NOTE: Dimensions in millimeters (mm).

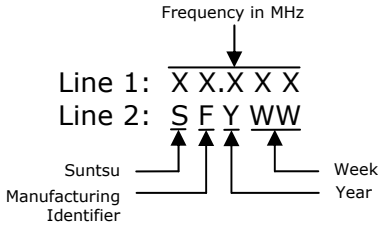
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

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

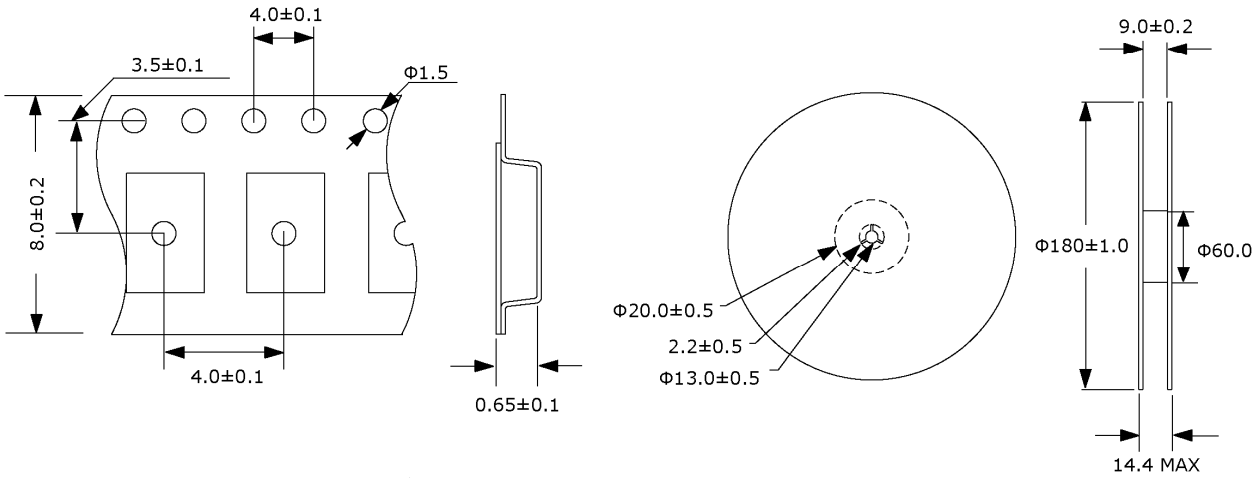


MARKING



TAPE AND REEL DIMENSIONS

3,000pcs/reel



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