SXT6G2 SERIES

6.0mm x 3.5mm GLASS SEALED SMT 2 PAD CRYSTAL

FEATURES	APPLICATIONS
- ±10ppm/±10ppm (Tolerance/Stability) Available - Miniature Package - AT-Cut Fundamental - RoHS Compliant - Tape and Reel - Glass Sealed	- Microprocessors - PCMCIA - Communication - Test Equipment

PART NUMBERING GUIDE

SXT 6G 2 18 A A 48 T - 24.000M

- **SUNTSU CRYSTAL**
- **6.0mm x 3.5mm GLASS SEALED**
- **2 PAD**
- **LOAD CAPACITANCE**
  - S: SERIES
  - 7 - 30: 7pF – 30pF
- **FREQUENCY TOLERANCE**
  - A: ±50ppm
  - B: ±30ppm
  - C: ±25ppm
  - D: ±20ppm
  - E: ±15ppm
  - F: ±10ppm
- **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: ±50ppm
  - B: ±30ppm
  - C: ±25ppm
  - D: ±20ppm
  - E: ±15ppm
  - F: ±10ppm*
- **FREQUENCY (MHz)**

Cage Code: 4GUT4

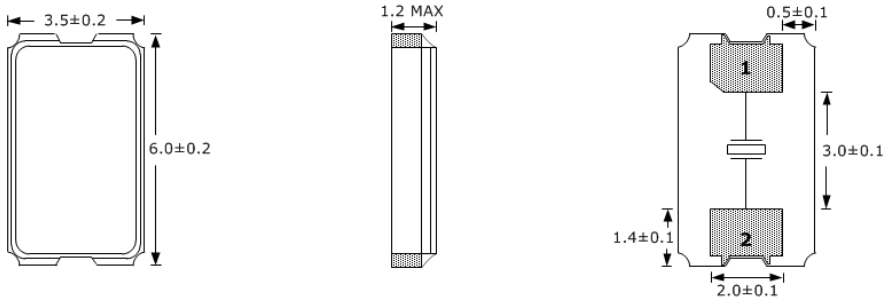
To customize your parameters contact a Suntsu representative.

* For frequency stability option F contact a Suntsu representative.

** For operating temperatures up to -55~125°C contact a Suntsu representative.

ELECTRICAL PARAMETERS		UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range		MHz	8		50	AT-Cut Fundamental.
			40		80	3rd Overtone.
Frequency Tolerance at +25ºC		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 @ +25ºC.
Operating Temperature		ºC	-40		+85	See part numbering guide for options.
Storage Temperature		ºC	-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.
Equivalent Series Resistance	8.000MHz ~ 9.999MHz	Ω			100	AT-Cut Fundamental.
	10.000MHz ~ 15.999MHz				60	AT-Cut Fundamental.
	16.000MHz ~ 50.999MHz				40	AT-Cut Fundamental.
	40.000MHz ~ 80.000MHz				70	3rd Overtone.

OUTLINE DRAWING



NOTE: Dimensions in millimeters (mm).

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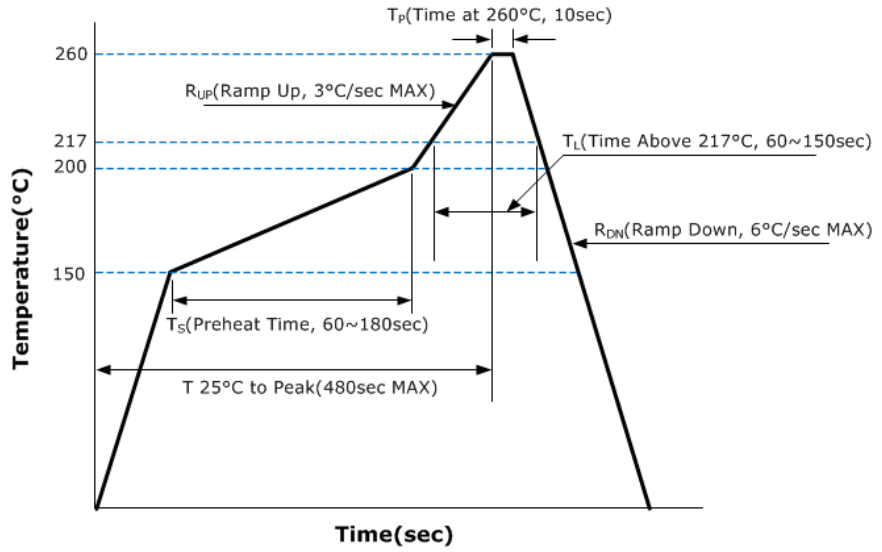
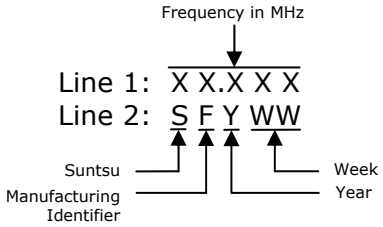
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Vibration	MIL-STD-883, Method 2007, Condition 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

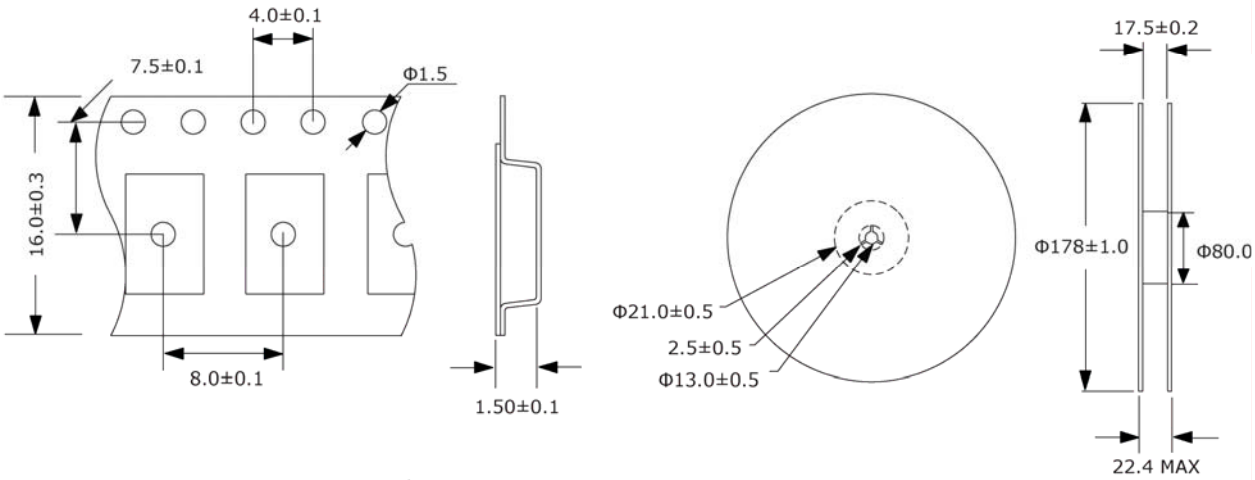


MARKING



TAPE AND REEL DIMENSIONS

1,000pcs/reel



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