

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> <li>- <math>\pm 10\text{ppm}/\pm 10\text{ppm}</math> (Tolerance/Stability) Available</li> <li>- Ultra-Miniature Package</li> <li>- Glass Sealed</li> <li>- AT-Cut Fundamental</li> <li>- RoHS Compliant</li> <li>- Tape and Reel</li> </ul>	<ul style="list-style-type: none"> <li>- Automotive Applications</li> <li>- PCMCIA</li> <li>- Wireless Applications</li> <li>- High Density Applications</li> </ul>



PART NUMBERING GUIDE	
<p><b>SUNTSU CRYSTAL</b> → <b>SXT 5G 2 18 A A 48 - 16.000M</b> ← <b>FREQUENCY (MHz)</b></p> <p><b>5.0mm x 3.2mm GLASS SEALED 2 PAD</b></p> <p><b>LOAD CAPACITANCE</b> S: SERIES 7 - 30: 7pF - 30pF</p> <p><b>FREQUENCY TOLERANCE</b> A: <math>\pm 50\text{ppm}</math> B: <math>\pm 30\text{ppm}</math> C: <math>\pm 25\text{ppm}</math> D: <math>\pm 20\text{ppm}</math> E: <math>\pm 15\text{ppm}</math> F: <math>\pm 10\text{ppm}</math></p> <p>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 <math>-55\sim 125^\circ\text{C}</math> contact a Suntsu representative.</p>	<p><b>OPERATING TEMPERATURE RANGE**</b> 07: <math>0^\circ\text{C}</math> to <math>+70^\circ\text{C}</math> 16: <math>-10^\circ\text{C}</math> to <math>+60^\circ\text{C}</math> 17: <math>-10^\circ\text{C}</math> to <math>+70^\circ\text{C}</math> 27: <math>-20^\circ\text{C}</math> to <math>+70^\circ\text{C}</math> 38: <math>-30^\circ\text{C}</math> to <math>+85^\circ\text{C}</math> 48: <math>-40^\circ\text{C}</math> to <math>+85^\circ\text{C}</math></p> <p><b>FREQUENCY STABILITY</b> A: <math>\pm 50\text{ppm}</math> B: <math>\pm 30\text{ppm}</math> C: <math>\pm 25\text{ppm}</math> D: <math>\pm 20\text{ppm}</math> E: <math>\pm 15\text{ppm}</math> F: <math>\pm 10\text{ppm}</math>*</p>

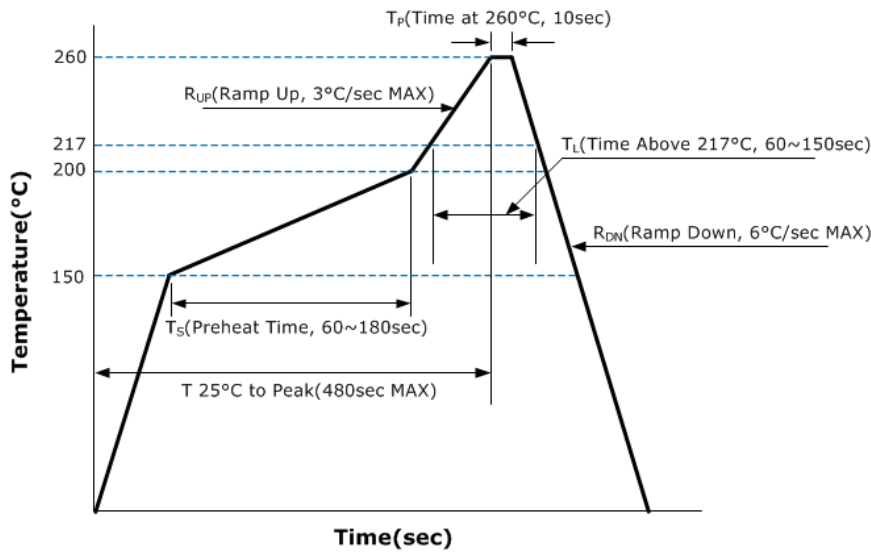
ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range	MHz	8		54	AT-Cut Fundamental.
Frequency Tolerance at $+25^\circ\text{C}$	ppm	-10		+10	See part numbering guide for options.
Frequency Stability vs. Operating Temperature (Ref. $25^\circ\text{C}$ )	ppm	-10		+10	See part numbering guide for options.
vs. Aging		-3		+3	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	8		30	See part numbering guide for options.
Shunt Capacitance	pF			7	
Drive Level	$\mu\text{W}$		100	300	
Insulation Resistance	M $\Omega$	500			@ $100\text{V}_{\text{DC}} \pm 15\text{V}$ .
Equivalent Series Resistance	8.000MHz ~ 11.999MHz			100	AT-Cut Fundamental.
	12.000MHz ~ 19.999MHz			80	AT-Cut Fundamental.
	20.000MHz ~ 29.999MHz			70	AT-Cut Fundamental.
	30.000MHz ~ 54.000MHz			50	AT-Cut Fundamental.
	40.000MHz ~ 100.000MHz			70	3 <sup>rd</sup> Overtone.

OUTLINE DRAWING		
	<p><b>ELECTRODE ARRANGEMENT (BOTTOM VIEW)</b></p>	<p><b>RECOMMENDED LAND PATTERN</b></p>
NOTE: Dimensions in millimeters (mm).		

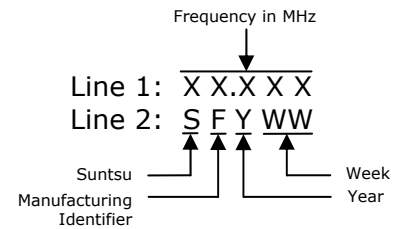
### ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

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

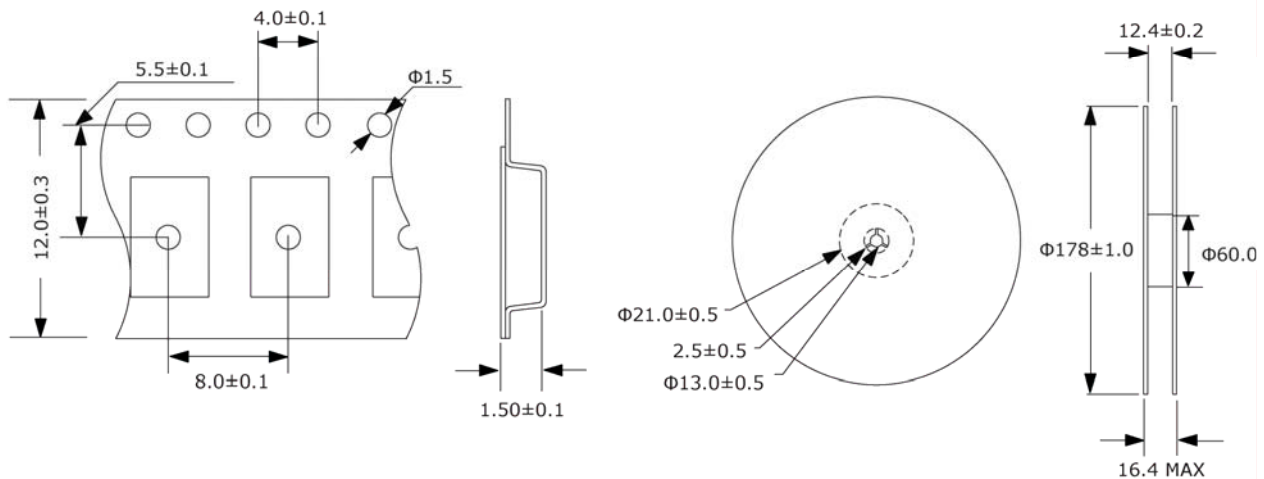


### MARKING



### TAPE AND REEL DIMENSIONS

1,000pcs/reel



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