

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**

**SUNTSU CRYSTAL** → **SXT 3G 4 18 A A 48 - 16.000M** ← **FREQUENCY (MHz)**

<p><b>3.2mm x 2.5mm GLASS SEALED 4 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>
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ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range	MHz	10		60	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. $25^\circ\text{C}$ ) vs. Aging	ppm	-10		+10	See part numbering guide for options.
		-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		18	See part numbering guide for options.
Shunt Capacitance	pF			5	
Drive Level	$\mu\text{W}$		10	200	
Insulation Resistance	M $\Omega$	500			@ $100\text{V}_{\text{DC}} \pm 15\text{V}$ .
Equivalent Series Resistance	10.000MHz			250	AT-Cut Fundamental.
	11.000MHz ~ 15.999MHz			100	AT-Cut Fundamental.
	16.000MHz ~ 25.999MHz			70	AT-Cut Fundamental.
	26.000MHz ~ 29.999MHz			60	AT-Cut Fundamental.
	30.000MHz ~ 60.000MHz			50	AT-Cut Fundamental.

**OUTLINE DRAWING**

ELECTRODE ARRANGEMENT  
(BOTTOM VIEW)

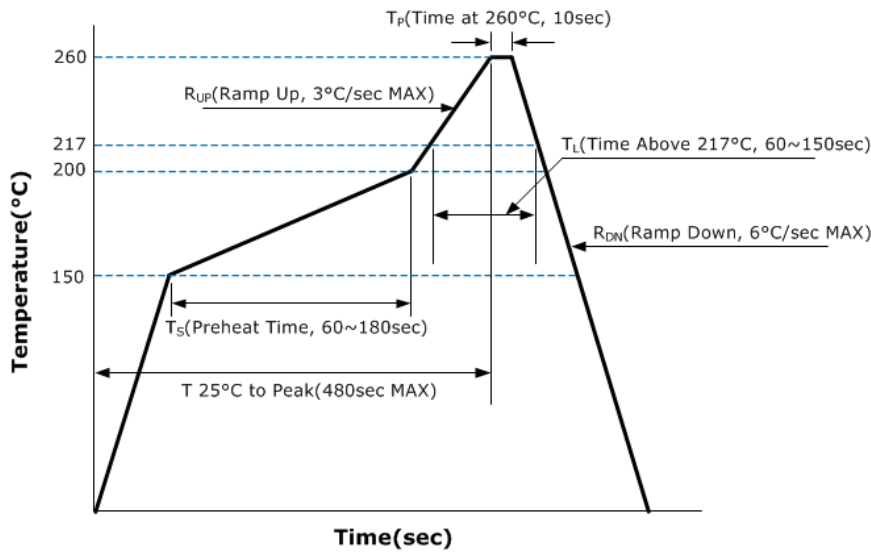
RECOMMENDED LAND  
PATTERN

NOTE: Dimensions in millimeters (mm).

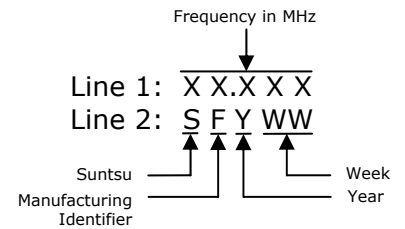
## ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

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

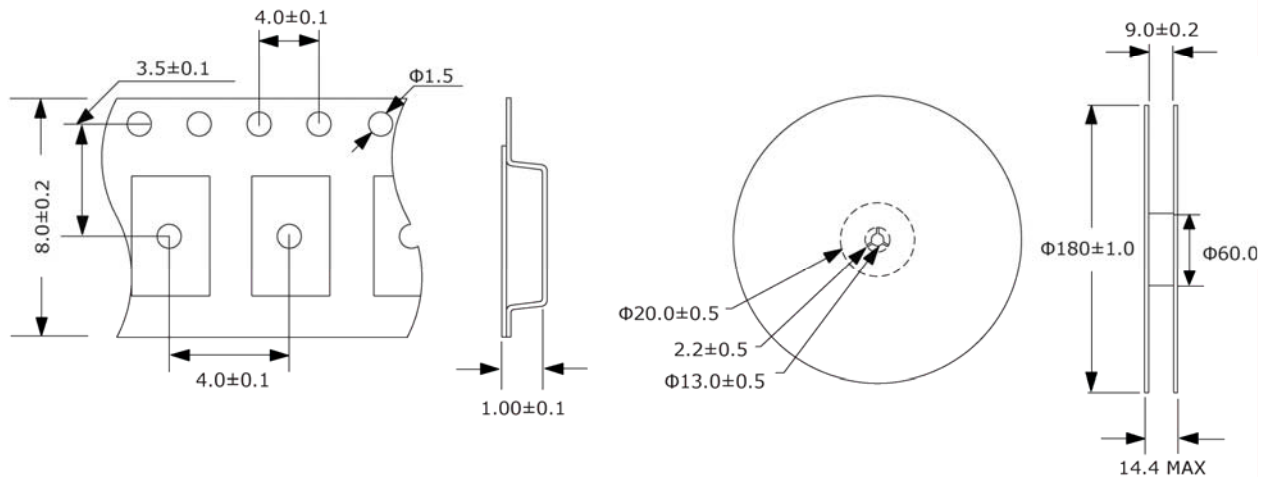


## MARKING



## TAPE AND REEL DIMENSIONS

3,000pcs/reel



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