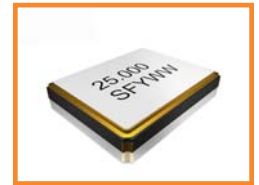
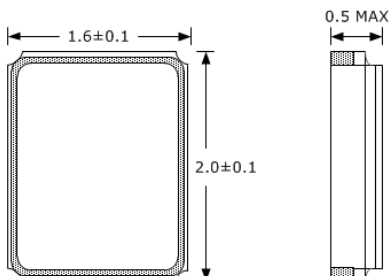
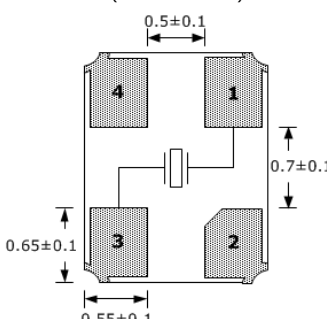
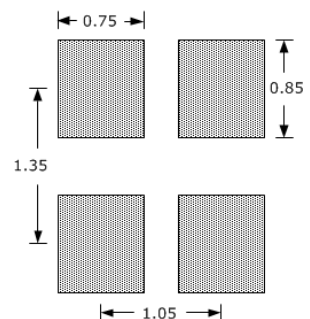


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> <li>- ±10ppm/±10ppm (Tolerance/Stability) Available</li> <li>- Ultra-Miniature Package</li> <li>- AT-Cut Fundamental</li> <li>- RoHS Compliant</li> <li>- Tape and Reel</li> </ul>	<ul style="list-style-type: none"> <li>- Office Automation</li> <li>- Audio/Visual Bluetooth</li> <li>- Small Communication Devices</li> <li>- SSD</li> <li>- USB</li> </ul>



PART NUMBERING GUIDE	
<p><b>SUNTSU CRYSTAL</b> → <b>SXT 21 4 18 A A 48 - 25.000M</b> ← <b>FREQUENCY (MHz)</b></p> <p><b>2.0mm x 1.6mm</b></p> <p><b>4 PAD</b></p> <p><b>LOAD CAPACITANCE</b> S: SERIES 8 - 32: 8pF - 32pF</p> <p><b>FREQUENCY TOLERANCE</b> A: ±50ppm B: ±30ppm C: ±25ppm D: ±20ppm E: ±15ppm F: ±10ppm</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 -55~125°C contact a Suntsu representative.</p>	<p><b>OPERATING TEMPERATURE RANGE**</b> 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</p> <p><b>FREQUENCY STABILITY</b> A: ±50ppm B: ±30ppm C: ±25ppm D: ±20ppm E: ±15ppm F: ±10ppm*</p>

ELECTRICAL PARAMETERS		UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range		MHz	16		60	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) vs. Aging		ppm	-10		+10	See part numbering guide for options.
			-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		16	See part numbering guide for options.
Shunt Capacitance		pF			5	
Drive Level		μW		50	100	
Insulation Resistance		MΩ	500			@ 100V <sub>DC</sub> ± 15V.
Equivalent Series Resistance	16.000MHz ~ 20.999MHz	Ω			200	AT-Cut Fundamental.
	21.000MHz ~ 25.999MHz				120	AT-Cut Fundamental.
	26.000MHz ~ 40.999MHz				100	AT-Cut Fundamental.
	41.000MHz ~ 60.000MHz				60	AT-Cut Fundamental.

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

