

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> ±10ppm/±10ppm (Tolerance/Stability) Available RoHS Compliant RESISTANCE WELD AT-Cut Bulk Packing 	<ul style="list-style-type: none"> Computer Printer CPU, Memory Data Communication



PART NUMBERING GUIDE	
<p>SUNTSU CRYSTAL → SXT UM 2 18 A A 48 T - 72.000M ← FREQUENCY (MHz)</p> <p>UM-1 DIP →</p> <p>2 LEAD →</p> <p>LOAD CAPACITANCE S: SERIES 7 - 30: 7pF - 30pF</p> <p>FREQUENCY TOLERANCE 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>MODE OF OPERATION BLANK: FUNDAMENTAL T: THIRD OVERTONE F: FIFTH OVERTONE</p> <p>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</p> <p>FREQUENCY STABILITY A: ±50ppm B: ±30ppm C: ±25ppm D: ±20ppm E: ±15ppm F: ±10ppm*</p>

ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range	MHz	8		70	AT-Cut Fundamental.
		35		200	3 rd Overtone.
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	7		30	See part numbering guide for options.
Shunt Capacitance	pF			7	
Drive Level	µW		100	500	
Insulation Resistance	MΩ	500			@ 100V _{DC} ± 15V.
Equivalent Series Resistance	8.000MHz ~ 11.999MHz			50	AT-Cut Fundamental.
	12.000MHz ~ 14.999MHz			30	AT-Cut Fundamental.
	15.000MHz ~ 70.000MHz			25	AT-Cut Fundamental.
	35.000MHz ~ 44.999MHz			50	3 rd Overtone.
	45.000MHz ~ 54.999MHz			45	3 rd Overtone.
55.000MHz ~ 200.00MHz			40	3 rd Overtone.	

OUTLINE DRAWING	MARKING
<p>NOTE: Dimensions in millimeters (mm).</p>	<p>Frequency in MHz</p> <p>Line 1: X X.X X X</p> <p>Line 2: S F Y W W</p> <p>Suntsu Manufacturing Identifier Year Week</p>

ENVIRONMENTAL SPECIFICATIONS		MECHANICAL SPECIFICATIONS	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	MIL-STD-202, Method 213, Condition C
Fine Leak Test	MIL-STD-883, Method 1014, Condition A	Vibration	MIL-STD-883, Method 2007, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K
Moisture Resistance	MIL-STD-883, Method 1004	Resistance to Solvents	MIL-STD-202, Method 215
Moisture Sensitivity	J-STD-020, MSL 1	Solderability	MIL-STD-883, Method 2003