

Features
±10ppm/±10ppm (Tolerance/Stability) Available - RESISTANCE WELD - AT-Cut - Bulk Packing

Applications
- Computer - Printer - CPU, Memory - Data Communication



Part Numbering Guide					
SXT UM 2 18 A A 48 T - 72.000M					
SUNTSU CRYSTAL	UM-1 DIP	2 LEAD	LOAD CAPACITANCE S : Series 7-30 : 7pF - 30pF	FREQUENCY TOLERANCE A : ±50ppm B : ±30ppm C : ±25ppm D : ±20ppm E : ±15ppm F : ±10ppm	FREQUENCY STABILITY A : ±50ppm B : ±30ppm C : ±25ppm D : ±20ppm E : ±15ppm F : ±10ppm*
				OPERATING TEMPERATURE RANGE** 07 : 0°C - +70°C 16 : -10°C - +60°C 17 : -10°C - +70°C 27 : -20°C - +70°C 38 : -30°C - +85°C 48 : -40°C - +85°C	FREQUENCY MHz MODE OF OPERATION BLANK : Fundamental T : 3 rd Overtone F : 5 th Overtone



Cage Code: 4GUT4

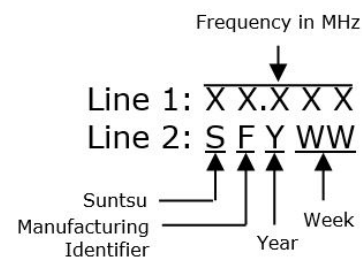
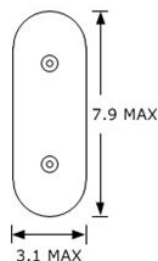
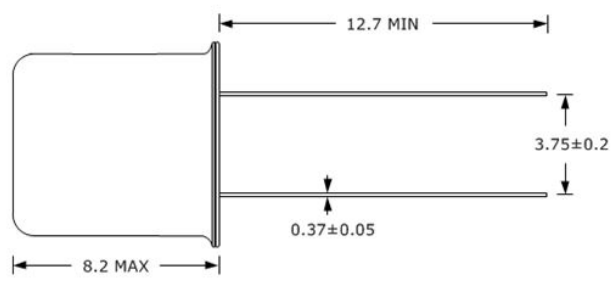
To customize your parameters contact a Suntsu representative.

* For frequency stability option F contact a Suntsu representative. ** For operating temperatures of -55-125°C a Suntsu representative.

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	8		70	AT-Cut Fundamental
Frequency Range	MHz	35		200	3 rd Overtone
Frequency Tolerance at +25°C	ppm	-10		+10	See part numbering guide for options.
Frequency Stability vs. Op Temp	ppm	-10		+10	See part numbering guide for options.
Frequency Stability vs. Aging	ppm	-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			@ 100VDC ± 15V.
8.000MHz ~ 11.999MHz	Ω			50	AT-Cut Fundamental
12.000MHz ~ 14.999MHz	Ω			30	AT-Cut Fundamental
ESR - 15.000MHz ~ 70.000MHz	Ω			25	AT-Cut Fundamental
35.000MHz ~ 44.999MHz	Ω			50	3 rd Overtone
45.000MHz ~ 54.999MHz	Ω			45	3 rd Overtone
55.000MHz ~ 200.000MHz	Ω			40	3 rd Overtone

Outline Drawing & Part Marking

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



Environmental 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
Moisture Resistance	MIL-STD-883, Method 1004
Moisture Sensitivity	J-STD-020, MSL 1

Mechanical Specifications

Mechanical Shock	MIL-STD-202, Method 213, Condition C
Vibration	MIL-STD-883, Method 2007, Condition A
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