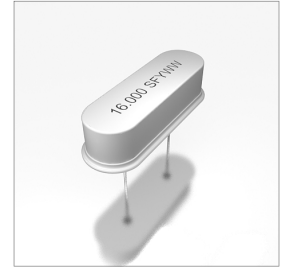


Features
<ul style="list-style-type: none"> ±10ppm/±10ppm (Tolerance/Stability) Available RESISTANCE WELD AT-Cut or BT-Cut Bulk Packing

Applications
<ul style="list-style-type: none"> Microprocessors Computers Modems Wireless Applications



Part Numbering Guide

SXT HS 2 18 A A 48 3 T - 16.000M

SUNTSU CRYSTAL

HC-49/US 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*

FREQUENCY
MHz

MODE OF OPERATION
BLANK :
Fundamental
T : 3rd Overtone
B : BT-Cut
Fundamental

HEIGHT OF PACKAGE
2 : 2.5mm Max
3 : 3.5mm Max

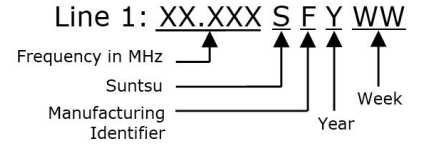
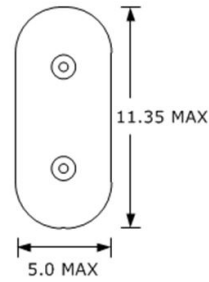
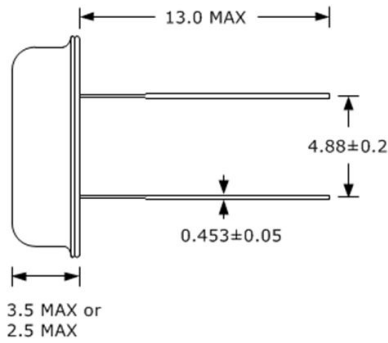
OPERATING TEMPERATURE RANGE**
07 : 0°C - +70°C
16 : -10°C - +60°C
17 : -10°C - +70°C
27 : -20°C - +70°C
38 : -30°C - +85°C
48 : -40°C - +85°C

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	3		40	AT-Cut Fundamental
Frequency Range	MHz	20		50	3 rd Overtone
Frequency Range	MHz	24		90	See part numbering guide for options.
Frequency Tolerance at +25°C	ppm	-10		+10	See part numbering guide for options.
Frequency Stability v's Op Temp	ppm	-10		+10	See part numbering guide for options.
Frequency Stability v's Aging	ppm	-3		+3	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.
3.000MHz ~ 4.999MHz	Ω			180	AT-Cut Fundamental
5.000MHz ~ 5.999MHz	Ω			120	AT-Cut Fundamental
6.000MHz ~ 7.999MHz	Ω			100	AT-Cut Fundamental
8.000MHz ~ 8.999MHz	Ω			80	AT-Cut Fundamental
ESR - 9.000MHz ~ 19.999MHz	Ω			60	AT-Cut Fundamental
20.000MHz ~ 40.000MHz	Ω			30	AT-Cut Fundamental
20.000MHz ~ 50.000MHz	Ω			40	BT-Cut Fundamental
24.000MHz ~ 39.999MHz	Ω			100	3 rd Overtone
40.000MHz ~ 90.000MHz	Ω			80	3 rd Overtone

Outline Drawing & Part Marking

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



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