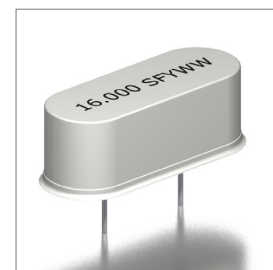


Features
±10ppm/±10ppm (Tolerance/Stability) Available - RESISTANCE WELD - AT-Cut or BT-Cut - Bulk Packing

Applications
- Microprocessors - Computers - Modems - Wireless Applications

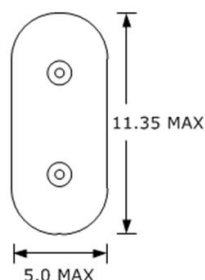
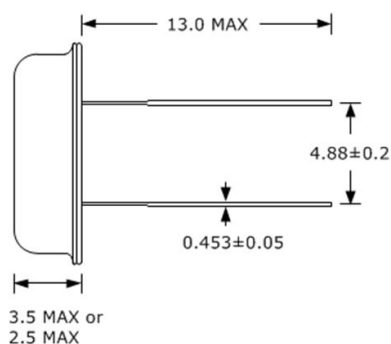


Part Numbering Guide					
SXT HS 2 18 A A 48 3 T - 16.000M					
SUNTSU CRYSTAL	HC-49/US DIP	2 LEAD	LOAD CAPACITANCE S : Series 7-30 : 7pF - 30pF	FREQUENCY TOLERANCE A : ±50ppm B : ±30ppm C : ±25ppm D : ±20ppm E : ±15ppm F : ±10ppm	FREQUENCY STABILITY A : ±50ppm B : ±30ppm C : ±25ppm D : ±20ppm E : ±15ppm F : ±10ppm*
				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
				HEIGHT OF PACKAGE 2 : 2.5mm Max 3 : 3.5mm Max	MODE OF OPERATION BLANK : Fundamental T : 3 rd Overtone B : BT-Cut Fundamental
					
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	BT-Cut Fundamental
Frequency Range	MHz	24		90	3rd 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	-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.



Line 1: XX.XXX S F Y WW
 Frequency in MHz Suntsu Manufacturing Identifier Year Week

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