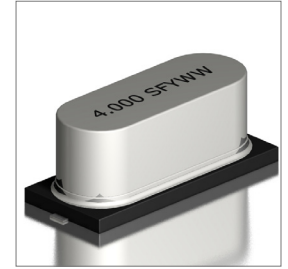


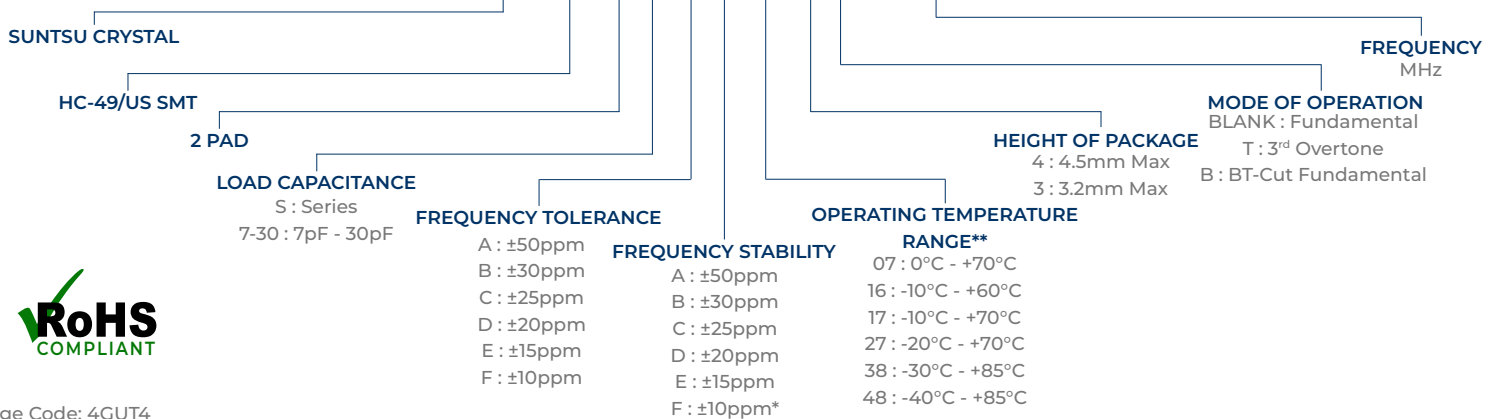
| Features |
|---|
| <ul style="list-style-type: none"> ±10ppm/±10ppm (Tolerance/Stability) Available RESISTANCE WELD AT-Cut or BT-Cut Tape and Reel |

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



Part Numbering Guide

SXT HM 2 18 A A 48 4 T - 4.000M



Cage Code: 4GUT4

To customize your parameters contact a Suntsu representative.

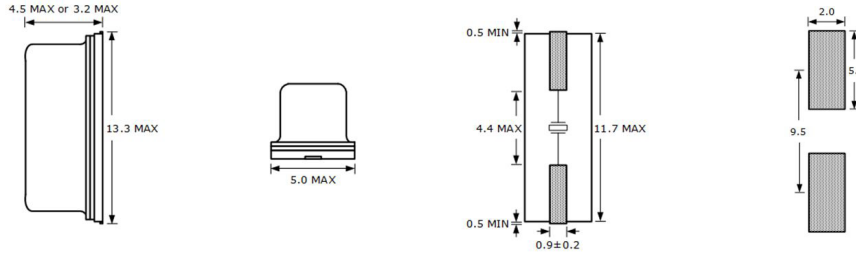
* For frequency stability option F contact a Suntsu representative. ** For operating temperatures of -55-125°C a Suntsu representative.

| 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 ~ 3.799MHz | Ω | | | 180 | AT-Cut Fundamental |
| 3.800MHz ~ 4.499MHz | Ω | | | 150 | AT-Cut Fundamental |
| 4.500MHz ~ 5.999MHz | Ω | | | 120 | AT-Cut Fundamental |
| 6.000MHz ~ 7.999MHz | Ω | | | 100 | AT-Cut Fundamental |
| 8.000MHz ~ 9.999MHz | Ω | | | 80 | AT-Cut Fundamental |
| ESR - 10.000MHz ~ 12.999MHz | Ω | | | 60 | AT-Cut Fundamental |
| 13.000MHz ~ 19.999MHz | Ω | | | 50 | 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 & Land Pattern

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

ELECTRODE ARRANGEMENT
(BOTTOM VIEW)



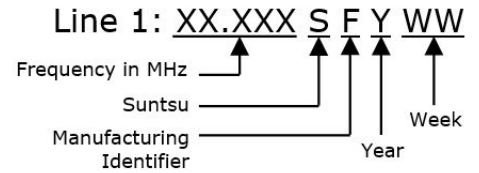
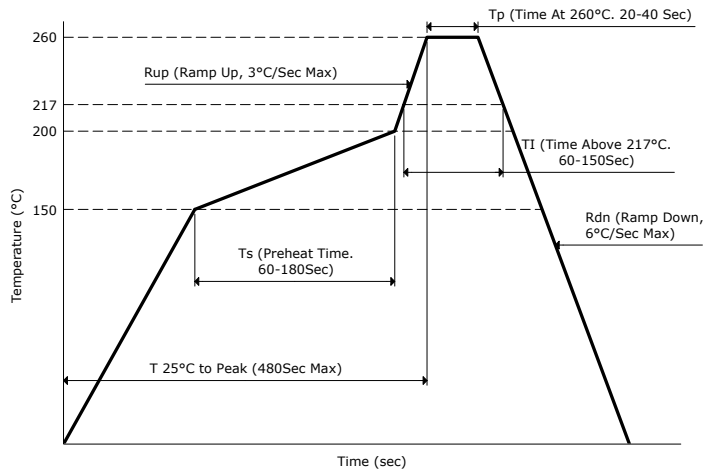
Environmental Specifications

| | |
|----------------------|---------------------------------------|
| 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 |

Reflow Profile & Part Marking



Tape And Reel Dimensions

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

1,000pcs / Reel

