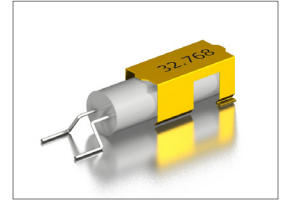


| Features |
|---|
| • ± 20 ppm (Tolerance) Available |
| • Gull-Wing Leads c/w Metal Jacket SMD Type |
| • Reflow Capable |
| • Tape and Reel |

| Applications |
|---------------------------|
| • Real Time Clock |
| • Measurement instruments |
| • Wireless Applications |



Part Numbering Guide

SWG 6J 2 12 D 48 - 32.768K

SUNTSU GULL-WING
CRYSTAL

6.3mm x 2.5mm
c/w Metal Jacket

2 LEAD

LOAD CAPACITANCE

12 : 12.5pF
9 : 9.0pF
7 : 7.0pF
6 : 6.0pF

FREQUENCY TOLERANCE

D : ± 20 ppm
F : ± 10 ppm

OPERATING TEMPERATURE RANGE

16 : $-10^{\circ}\text{C} - +60^{\circ}\text{C}$
48 : $-40^{\circ}\text{C} - +85^{\circ}\text{C}$

FREQUENCY
kHz



Cage Code: 4GUT4

To customize your parameters contact a Suntsu representative.

| Electrical Parameters | Units | Minimum | Typical | Maximum | Remarks |
|-----------------------------------|--------------------|---------|---------|---------|---------------------------------------|
| Frequency Range | kHz | | 32.768 | | |
| Frequency Tolerance at +25°C | ppm | -20 | | +20 | See part numbering guide for options. |
| Frequency Stability vs. Aging | ppm | -3 | | +3 | First year @ +25°C. |
| Frequency Coefficient (β) | ppm/T ² | -0.040 | -0.034 | -0.028 | |
| Operating Temperature | °C | -40 | | +85 | See part numbering guide for options. |
| Turnover Temperature | °C | +20 | +25 | +30 | |
| Storage Temperature | °C | -55 | | +125 | |
| Load Capacitance | pF | 6 | | 12.5 | See part numbering guide for options. |
| Shunt Capacitance | pF | | 1.5 | | |
| Drive Level | μW | | | 1 | |
| Insulation Resistance | M Ω | 500 | | | @ 100VDC \pm 15V. |
| Equivalent Series Resistance | k Ω | | | 50 | |

Outline Drawing & Recommended Land Pattern

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

