

Quartz Crystal

Series 6B, Resistance Welded HC-49/S Package



FEATURE

- Height 3.5mm, The volume is compact at about one –fourth of the former product(HC-49U)
- A resistance weld completely sealed type
- The frequency stability is good ,the reliability is high
- Copes with high density mounting and is the is the optimum for mass production

ELECTRICAL SPECIFICATIONS

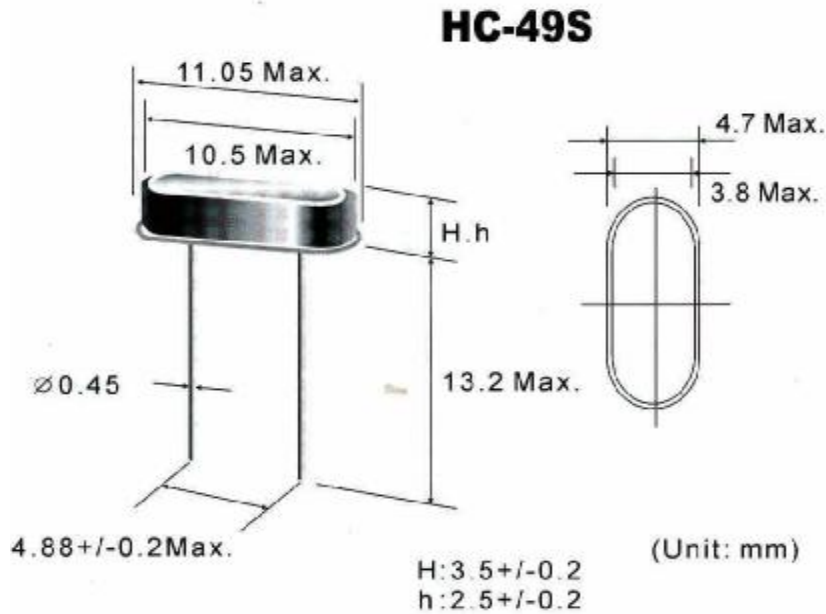
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|--|---|
| Nominal frequency | 10.00MHz |
| Oscillation mode | Fundamental |
| Load capacitance | 18PF |
| Frequency tolerance | ±30PPM at 25 ±3°C |
| Equivalent series resistance | 50Ω |
| Storage temperature range | -40°C--+85°C |
| Operating temperature range | -20°C--+70°C |
| Frequency Stability Over Operating Temperature | ±30PPM |
| Parallel capacitance(Co) | 7PF Max |
| Drive level | 10 μW |
| Insulation resistance | More than 500MΩ AT DC100V |
| Shock Resistace | Drop test of 3times on 2mm stainless plate from 75cm height |

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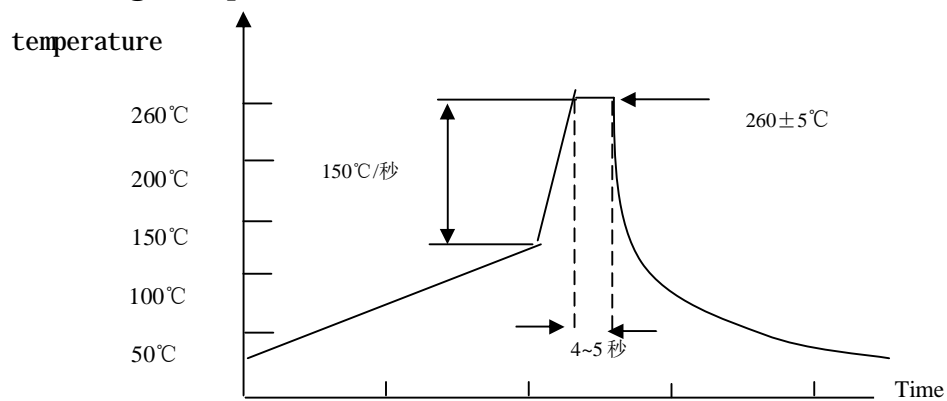
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Dimension



Wave soldering temperature curve



PART NUMBER

| | | | | | | | | |
|-------------|--------------------------------|---|--|-----------------------------------|---|--|---|--|
| SJK- 6B- | 10.00 Frequency 10.00MHz | 32 Load capacitance 32pf s:series | 30 Frequency tolerance ±30ppm | 50 E.S.R.max e.g. 50Ωmax | F oscillate mode F:Fundamental 3:3rd overtone 5:5th overtone | B operating temperature range A:-10-60°C B:-20-70°C C:-40-85°C | 30 temperature stability: ±30ppm | H H:Normal (3.5mm) h:low (2.5mm) |
|-------------|--------------------------------|---|--|-----------------------------------|---|--|---|--|

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RELIABILITY TEST SPECIFICATION

| Test item | Equipment | Condition | Specification |
|--|---|---|--|
| 1. TERMINAL STRENGTH TEST | Pull equipment | 1.10N FORCE IN AXES OF TERMINATION 10±1SEC 2.2.5MM FROM TERMINAL, BEND 90° | '1. MIL-STD-202F,METHOD 211A |
| 2.SOLDERABILITY TEST | SJK-REL001 、 RC-328A | 1.solderability:235±5℃, 5±0.5S 2.heat resistance:260±5℃,10±1S restoration of 1 hour | '1. MIL-STD-883CMETHOD 2003.7 2. MIL-STD-202F,METHOD 210A |
| 3. HERMETICITY TEST | UL-306S | small and do not control roughly (hubble-bubble machine); Nothing air bubble creation s thin leave out 1 * 10 E-8 ATM.CC/SEC. | MIL-STD-883C METHOD 1014.9 |
| 4. VIBRATION TEST | HG-V4、 S&A 250B | Enable Crystal(10g) from 10-55-10Hz,X、 Y、 Z horizontal,1 Minute vibration/time, 1time/ 2 hours. | JIS C5025 TEST A MIL-STD-883C,METHOD 2007.2 |
| 5. MECHANICAL SHOCK | HPC-200、 S&A 250B | Enable Crystal 50G(490m/s ²) time=11 ms speed=3.4 m/s half sine wave oscillation | JIS C5026 MIL-STD-883C,METHOD 2002 |
| 6. DROP TEST | HARD BOARD.S&A250B | 75CM HIGH,3 TIMES ON HARD BOARD | 'JIS C6701 |
| 7. SALT SPRAY | H-SST-60、 RC-328A | 5% NaCl,35℃±2℃ CHAMBER,48 hrs. , PH:6.5~7.2 | JIS C5028 & MIL-STD- 202FMETHOD 101D |
| 8. HIGH&LOW TEMP STORAGE TEST(Static test) | H-PTH-80CK & HM101-3ABN , S&A 350B/250B | High temperature: 125℃±2℃,1000hr; Low temperature:-40℃±3℃,1000hrs | MIL-STD-883C,METHOD 1011.8& JIS C5030 |
| 9. TEMP & HRM CYCLING TEST | H-PTH-80CK CHAMBER , S&A 350B/250B | Temperature:-10 ℃ ±2 ℃ ~ 65 ℃ ±2 ℃ ,Humidity:93±3%,1 cycle need 24 hrs. 5cycles. | MIL-STD-883C,METHOD 1010.7 |
| 10. HIGH TEM. & HUM. STORAGE TEST | H-PTH-80CK CHAMBER , S&A350B/250B | temperature:40 ℃ ±2 , Humidity:85+3,- 2%,Store 96 hrs | JIS C5023 |
| 11. AGING TEST | H-PTH-80CK CHAMBER , S&A350B/250 | temperature: 85℃±2, 1000hrs | JIS C5031 |