

QUARTZ CRYSTAL FILTER
49U Series



Approved by:
Checked by:
Issued by:

SPECIFICATION

MODEL:SJK-6A-4.00-20-30-70-F-B-30

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.APPLICATION

- .Height 13.46mm
- .A Resistance weld completely sealed type
- .The frequency stability is good ,the reliability is high
- .Copes with high density mounting and is the optimum for mass production

.ELECTRICAL SPECIFICATIONS

Nominal Frequency	4.00MHZ
Model No	HC-49U
Frequency stability (Tol)	±30ppm(Ref at 25°C)
Oscillation Mode	■Fund □3rd □5th
Operation Temperature	-20°C+70°C
Temperature Characteristic	±30ppm
Load Capacitance	20PF
Series Resistance (ESR)	≤70Ωmax
Drive Level	100μW
Shunt Capacitance	7 PF max
Aging rate per Year	±5ppm/year
Insulation Resistance	500MΩ at DC 100V ±10V

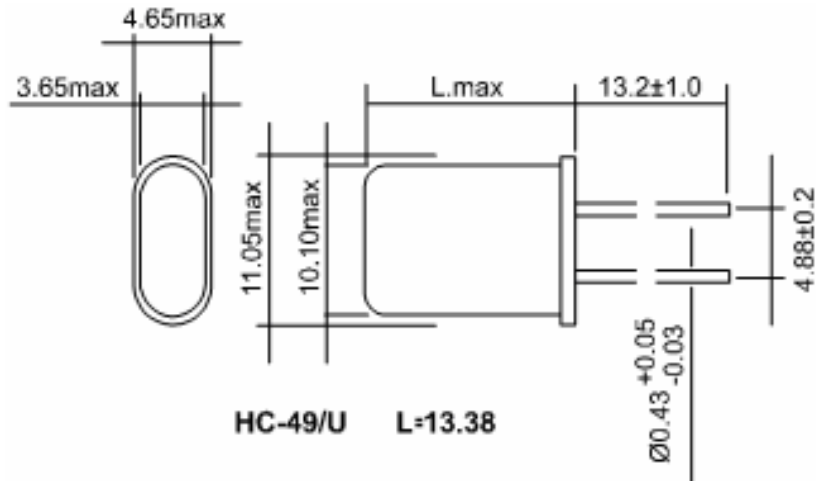
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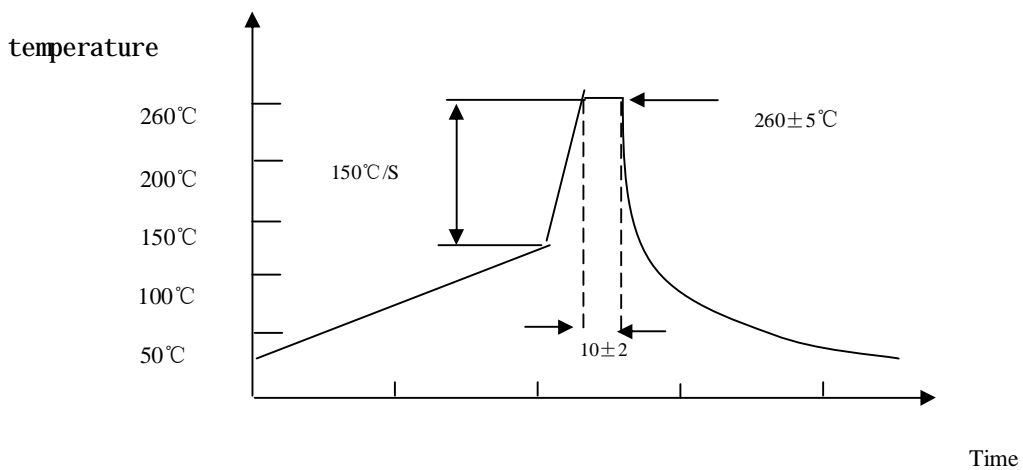
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Dimension



Wave soldering temperature curve



PART NUMBER

SJK-	4.000	—	20	—	30	—	70	—	F	—	B	—	30
6A-	Frequency 4.000MHz		Load capacitance 20pf s:series		Frequency tolerance ±30ppm		E.S.R.max e.g. 70Ωmax		oscillate mode F:Fundemental 3:3rd overtone 5:5th overtone		operating temperature range A:-10-60°C B:-20-70°C C:-40-85°C		temperature stability: ±30ppm

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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- 202F'METHOD 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

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