

SHENZHEN JINGFENG CRYSTAL TECHNOLOGY CO., LTD.

Specifications for Quartz Crystal Unit.

Part No.: JF10.000M9S20F3050E3BK

Holder Type: HC-49S

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SPECIFICATIONS FOR QUARTZ CRYSTAL UNIT.

Part Number: JF10.000M9S20F3050E3BK

1. SCOPE.

This specification shall cover the characteristics of the Quartz Crystal with 10.000 MHz

2. CUSTOMER NO. :

2-1 Application. :

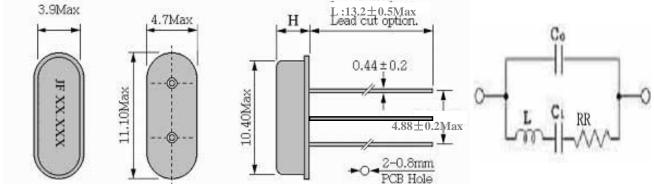
2-2 Holder Type. : HC-49S Package.
2-3 Mode of Oscillation. : AT-Cut, Fundamental.

3. ELECTRICAL CHARACTERISTICS.

No.	Item.	Specification.	
3-1	Nominal Center Frequency. (Fo)	10. 000000 MH z	
3-2	Load Capacitance. (pF) 20pF		
3-3	Frequency Tolerance at 25 °C ±2 °C. (ppm) ±30 ppm Maximum. (RT/ppm)		
3-4	Stability Temperature Characteristics. (ppm) ±30 ppm Maximum. (TC/ppm)		
3-5	Operating Temperature Range. (°C) $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$		
3-6	Storage Temperature Range. (°C) -40°C ~ +85°C		
3-7	Equivalent Resistance. (Ω) $\leq 60\Omega$ Maximum.		
3-8	Drive Level. (uW) $\leq 10 \text{ uW}$		
3-9	Shunt Capacitance. (pF) ≤ 7.0 pF Maximum.		
3-10	Insulation Resistance. (Ω) DC 100V \pm 15V. $/ \ge 500$ M Ω Minimum		
3-11	Aging. ±5 ppm / Year.		

4. DIMENSIONS and MARKING. (Unit: mm, HC-49S, H: 13.2 ± 0.5 mm)

4-1 Dimensions and Marking. 4-2 Equivalent Schematic.



4-3 Marking System

Marking: JF10.000

JF: Company logo. (J, JF, SZJF)
 10.000: Center frequency. (MHz)
 Ink color: Black (Laser marking option)

5. MECHANICAL CHARACTERISTICS.

No.	Item.	Condition of Test.
5-1	Shock Test.	The crystal unit is dropped from the height of 30cm in free fall
		condition on a 30mm-thick hard wood board for 3 times.
		Test of hermitic ability no bubble in water at 80 °C ±5 °C for 3 minutes.
5-2	Vibration Test.	Subject the electrical characteristics should be ±5ppm in measurement
		of frequency and ±15% if the measurement of resistance.
5-3	Solder-ability Test.	Dip the quartz crystal unit terminal no closer than 1.5mm into the solder bath at
		230°C ±5°C for 5±1 sec. More than 95% of the terminals surface shall be
		covered with the solder.
5-4	Resistance to the	The temperature shall be 260 °C ±5 °C, immersion duration shall be 10 seconds.
	Solder Heat.	Using a heat shunt board. And then the quartz crystal unit shall be released
		to standard room temperature condition for1 hour before with measurement
		shall be made. Electric characteristics shall be satisfy the spec.
5-5	Moisture.	Keep the quartz crystal unit at $60^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and 90% RH for 96 hours.
		Then release the crystal unit in to the room condition for 1 hours prior to the
		measurement. It shall fulfill the spec.
5-6	High	Subject the quartz crystal unit to 70°C ±5°C for 96 hours.
	Temperature Exposure.	Then release the crystal unit in to the room condition for 1 hours
		prior to the measurement. It shall meet the spec.
5-7	Low	Subject the quartz crystal unit to $-20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 96 hours.
Ì	Temperature Exposure.	Then release the crystal unit in to the room condition for 1 hours
		prior to the measurement. It shall meet with the tolerance of the spec.
5-8	Hermetical Test.	No bubble in water at $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 3 minutes.
5-9	Lead Pulling Test.	Weight along with the direction of lead without any shock -0.9 kg for 5~10 seconds.
		The product shall show no evidence damage and shall satisfy the initial electric
		characteristics.
5-10	Lead Bending Test.	Lead shall be subject to withstand against bending of 90°C twice at it's stem.
		And then the lead shall show no evidence damage and shall satisfy the initial electric
		characteristics. The quartz crystal unit shall be held by it's body in such a manner
		that the axes of it's terminal are vertical. A mass having 0.45kg shall be inclined
		through an angle of 90 In the vertical plane, taking 2 seconds.
		There should be no damage in the lead and any change in electric characteristics.

6. SEALING.

The quartz crystal unit shall be immersed in water at a temperature of $80\,^\circ\!\!\mathrm{C}$ or higher.

Inspection shall be made after 5 minutes while the crystal unit still in the water.

Without leakage as determined by repetitive bubbles ember from the crystal unit.

单击下面可查看定价,库存,交付和生命周期等信息

>>JF(晶峰)