

# SHENZHEN SHIJING ELECTRONIC CO, LTD.

## CRYSTAL UNIT SPECIFICATIONS

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### THIS SPECIFICATION SHEET IS PROVIDED TO:

For specifying specifications of following product:

**JBS25.000MHZ**

**(SHIJING Part Number)**

**(Your Part Number)**

This document contains:

- 1.Electrical Specifications----- Page 2
- 2.Reliability Specifications-----Page 3
- 3.Product Dimensions-----Page 4
- 4.Package Dimensions-----Page 5

Appendix Attached to this specification sheet is as follows:

Room Temperature Test Data:      1      Pages

TC Test Data:                              0      Pages

Prepared By:

CONFIRMED BY:

Checked By:

For future reference, we thank you to confirm the specifications and send one copy back to us.

# SHENZHEN SHIJING ELECTRONIC CO, LTD.

## CRYSTAL UNIT SPECIFICATIONS

### ● ELECTRICAL PARAMETERS

No.	Characteristic	Limits	Remark
1	Nominal Frequency	25.00000MHz	
2	Mode of Vibration	Fundamental	
3	Frequency Tolerance	$\pm 10\text{ppm}$	Measure at $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$
4	Operating Temperature Range	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	
5	Frequency Stability	$\pm 20\text{ppm}$	Over Operating Temperature Range
6	Storage Temperature Range	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	
7	Load capacitance	20pF	
8	Equivalent Series Resistance	40 $\Omega$ max	
9	Drive Level	100 $\mu$ W max	
10	Insulation Resistance	500M $\Omega$	At 100V <sub>DC</sub>
11	Shunt Capacitance	7pF	
12	Motional Capacitance		
13	Aging Per Year	$\pm 3\text{ppm}$	First Year
14	Resistance Variation vs. Drive Level		
15	Frequency Variation vs. Drive Level		
16	Package Type	HC-49S	See Page 4

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## CRYSTAL UNIT SPECIFICATIONS

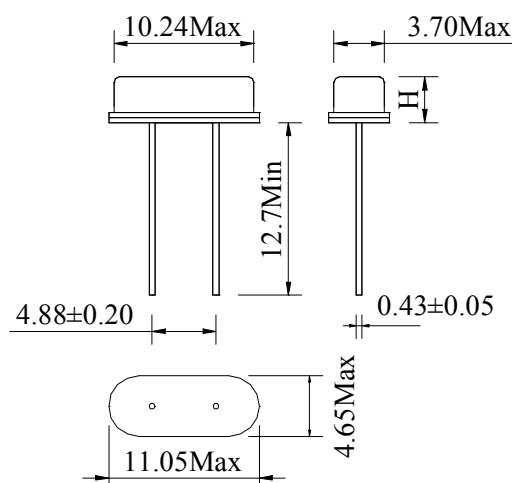
### ● RELIABILITY SPECIFICATIONS

No.	Test Item	Test Conditions	Reference
1	High Temperature Storage	Temperature: $125^{\circ}\text{C} \pm 10^{\circ}\text{C}$ Time: $1000 \pm 24$ Hours	MIL-STD-883E
2	Temperature Cycle	Temperature 1: $-55^{\circ}\text{C} \pm 10^{\circ}\text{C}$ Temperature 2: $125^{\circ}\text{C} \pm 10^{\circ}\text{C}$ Temperature change between T1 and T2 at soonest Run 10 cycles, maintain T1 and T2 10 minutes each in one cycle	MIL-STD-883E
3	Solder Heat Resistance	Pre-heat: $125^{\circ}\text{C}$ 60~120 Seconds Solder Temperature: $260^{\circ}\text{C} \pm 10^{\circ}\text{C}$ Time: 10 Seconds	MIL-STD-202F
4	Drop Test	3 Times Free Fall from 75cm height table to 3cm thickness hard wood board	MIL-STD-202F
5	High Temperature, High Humidity Storage	Temperature: $85^{\circ}\text{C}$ Relative Humidity: 85% Time: 1000 Hours	MIL-STD-883E
6	Steam Aging	Temperature: $97^{\circ}\text{C}$ Time: 8 Hours $230^{\circ}\text{C}$ solder pot to check solderability	MIL-STD-883E
7	Solderability	Dip in flux 5~10 seconds Temperature: $230^{\circ}\text{C} \pm 10^{\circ}\text{C}$ Time: 3 Seconds	MIL-STD-883E
8	Aging	Temperature: $85^{\circ}\text{C}$ Time: 300 Hours	MIL-STD-883E
9	Thermal Shock	Temperature 1: $-55^{\circ}\text{C} \pm 10^{\circ}\text{C}$ Temperature 2: $125^{\circ}\text{C} \pm 10^{\circ}\text{C}$ Temperature change between T1 and T2: 5 seconds 10 cycles, maintain T1 and T2 for 30 minutes each in one cycle	MIL-STD-202F
10	Vibration	Frequency Range: 10Hz~2000Hz Amplitude: 1.5mm 40mins in each direction, total 120mins	MIL-STD-883E

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## CRYSTAL UNIT SPECIFICATIONS

### ● Outline Dimensions (unit: mm)



Part	H
HC-49SA	3.5mm Max
HC-49SB	2.5mm Max

### ● MARKING



First 6 Digital: Frequency in Mhz

H: SJ

3: Year 2006

X: Month Code

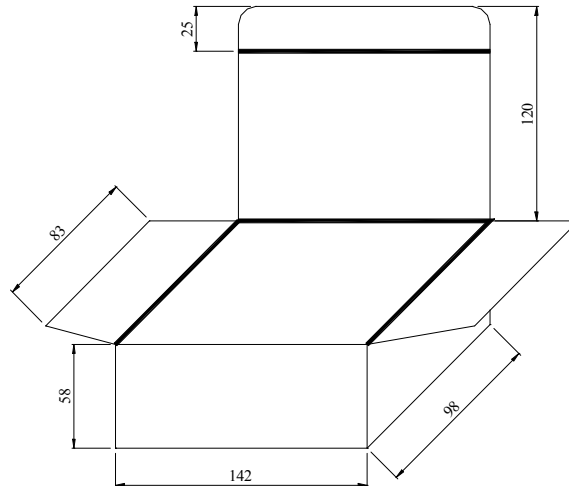
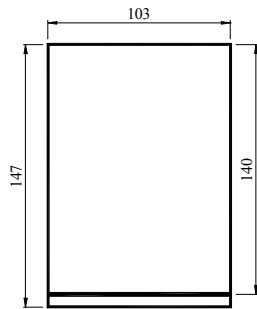
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	B	C	D	E	F	G	H	I	J	K	L

**FOR EXAMPLE : JBS25.0000M**

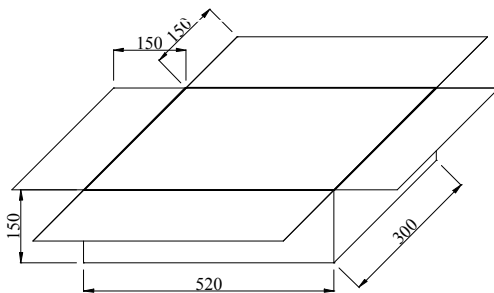
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## CRYSTAL UNIT SPECIFICATIONS

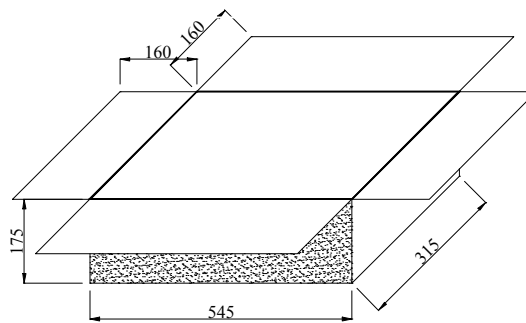
### Package (units : mm)



200 PCS = 1 BAG



5 BAGS = 1 INNER BOX



\* 20 K PCS = 1 OUTER BOX  
20 INNER BOX = 1 BOX

1 BOX = 1 OUTER BOX