

MOBICON

Electronic Components

PRODUCT SPECIFICATION

MEC QUARTZ CRYSTAL

FREQUENCY COMPONENTS

HC49S Series QUARTZ CRYSTAL SPECIFICATION

MOBICON HOLDINGS LTD.		
Prepared By	Sign.	Approved By
Leo Wong		C.H. Wong

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SPECIFICATION OF CRYSTAL UNIT

PART NO. :

HC49S-27.185M2010T

ELECTRICAL CHARACTERISTICS

1. Nominal Frequency	27.185 MHz
2. Holder Type	HC49S
3. Frequency Tolerance	± 10 ppm at 25°C
4. Equivalent Resistance	20 Ohm max.
5. Insulation Resistance	500M Ohm @100V _{DC}
6. Temperature Tolerance	± 50 ppm at $-10 \sim +60^{\circ}\text{C}$
7. Operating Temperature Range	$-10 \sim +60^{\circ}\text{C}$
8. Storage Temperature Range	$-10 \sim +70^{\circ}\text{C}$
9. Loading Capacitance	20 pF
10. Drive Level	100uW max.
11. Aging	± 5 ppm/ year max.
12. Oscillation Mode	Third Overtone

DIMENSIONS (mm)



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DOC. No: HC49S-27.185MHz20pF10ppmT

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SPECIFICATION OF CRYSTAL UNIT

No.	Item	Condition of Test
1	Drop Test	Dropping from 75cm height, 3 times on hard wooden board.
2	Vibration Test	30 minutes in each direction 10 to 55 Hz, amplitude 0.7 ~ 0.9mm Variation: Frequency drift < ± 20 ppm
3	Solderability	The dipping surface of the lead shall be at least 95% Covered with a Continuous new solder coating. Condition of test: Temperature of solder bath: $230^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Dipping time: 5 sec.
4	Leakage	No bubbles coming up from interior of the holder. Insulation resistance: More than 500M Ohm Condition of test: Temperature of hot water: $90^{\circ}\text{C} \sim 95^{\circ}\text{C}$ Test time: 3 min.

REVIEW OF SPECIFICATIONS

- 1) When something get doubtful with this specifications, we shall jointly work to get an agreement.
- 2) This specification limits the quality of the components as a single unit. Please insure the component is thoroughly evaluated in your application circuit.
- 3) Please do not use this component in any application that deviates from its intended use as noted within the specification. It may cause any mishaps.
- 4) Please return one of this specification after your signature of acceptance. In case of no return within 3 months from submission date. This specification should be treated as accepted.



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DOC. No: HC49S