

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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MIEC

SPECIFICATION OF CRYSTAL UNIT

PART NO. :

HC49S-6.78M3010F

ELECTRICAL CHARACTERISTICS

| | |
|--------------------------------|------------------------------------------------|
| 1. Nominal Frequency | 6.78 MHz |
| 2. Holder Type | HC49S |
| 3. Frequency Tolerance | ± 10 ppm at 25°C |
| 4. Equivalent Resistance | 80 Ohm max. |
| 5. Insulation Resistance | 500M Ohm @100V _{DC} |
| 6. Temperature Tolerance | ± 30 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 | 30 pF |
| 10. Drive Level | 500uW max. |
| 11. Aging | ± 5 ppm/ year max. at 25°C |
| 12. Oscillation Mode | Fundamental |

DIMENSIONS (mm)



Prepared By: Leo Wong

DOC. No: HC49S-6.78MHz30pF10ppmF

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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.



Prepared By: Leo Wong
DOC. No: HC49S