

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

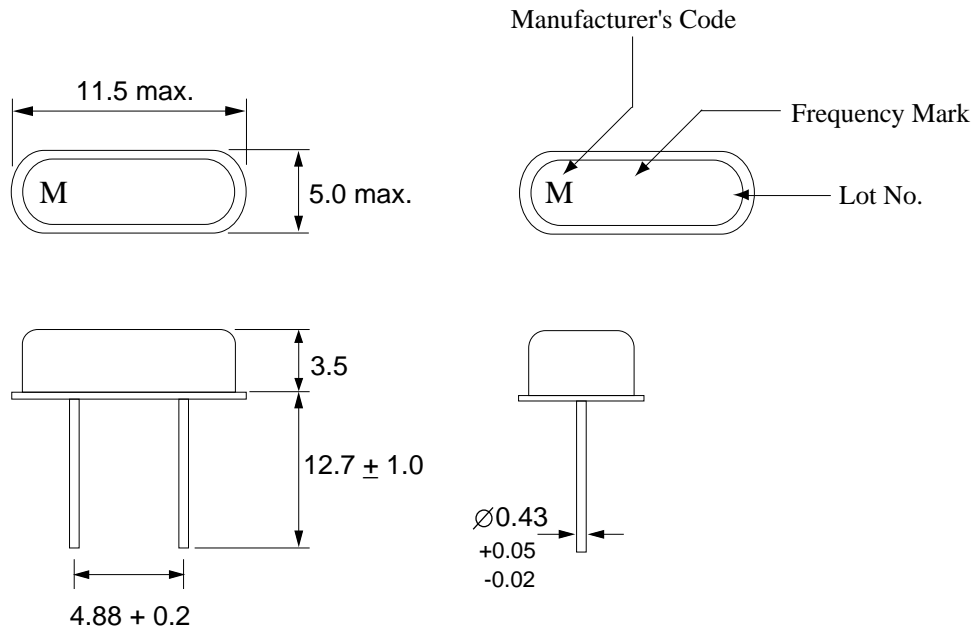
PART NO. :

HC49S-4.332M1630F

ELECTRICAL CHARACTERISTICS

1. Nominal Frequency	4.332 MHz
2. Holder Type	HC49S
3. Frequency Tolerance	± 30 ppm at 25°C
4. Equivalent Resistance	80 Ohm max.
5. Insulation Resistance	500M Ohm @100V _{DC}
6. Temperature Tolerance	± 50 ppm at $-10 \sim +70^{\circ}\text{C}$
7. Operating Temperature Range	$-10 \sim +60^{\circ}\text{C}$
8. Storage Temperature Range	$-20 \sim +70^{\circ}\text{C}$
9. Loading Capacitance	16 pF
10. Drive Level	100uW max.
11. Aging	± 5 ppm/ year max.
12. Oscillation Mode	Fundamental

DIMENSIONS (mm)



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DOC. No: HC49S-4.332MHz16pF30ppmF

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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.

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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.

When using our products, the following precautions should be taken.

- (1) Safety designing of apparatus or a system allowing for failures of electronic components used in the system

In general, failures will occur in electronic components at a certain probability. MOBICON HOLDINGS LTD makes every effort to improve the quality and reliability of electronic component products. However, it is impossible to completely eliminate the probability of failures. Therefore, when using MOBICON HOLDINGS LTD electronic component products, systems should be carefully designed to ensure redundancy in the event of an accident which would result in injury or death, fire, or social damage, to ensure the prevention of the spread of fire, and the prevention of faulty operation.
- (2) Quality Level of various kinds of parts, and equipment in which the parts can be utilized

Electronic components have a standard quality level unless otherwise specified.
- (3) This specifications is subject to change without notice.

The contents of this specifications are based on data which is correct as of 2002, and they may be changed without notice. If our products are used for mass-production design, please enquire consult with a member of our company's sales staff by way of precaution.
- (4) Reprinting and copying of this specifications without prior written permission from MOBICON HOLDINGS LTD are not permitted.
- (5) Industrial Property Problems

In the event any problems associated with industrial property of a third party arising as a result of the use of our products. MOBICON HOLDINGS LTD assumes no responsibility for problems other than problems directly associated with the constitution and manufacturing method of the products.



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DOC. No: Review of Spec