

MOBICON

Electronic Components

PRODUCT SPECIFICATION

MEC QUARTZ CRYSTAL

FREQUENCY COMPONENTS

HC49S Series QUARTZ CRYSTAL SPECIFICATION

| MOBICON HOLDINGS LTD. | | |
|------------------------------|--------------|--------------------|
| Prepared By | Sign. | Approved By |
| Kiko Chan | | C.H. Wong |

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SPECIFICATION OF CRYSTAL UNIT

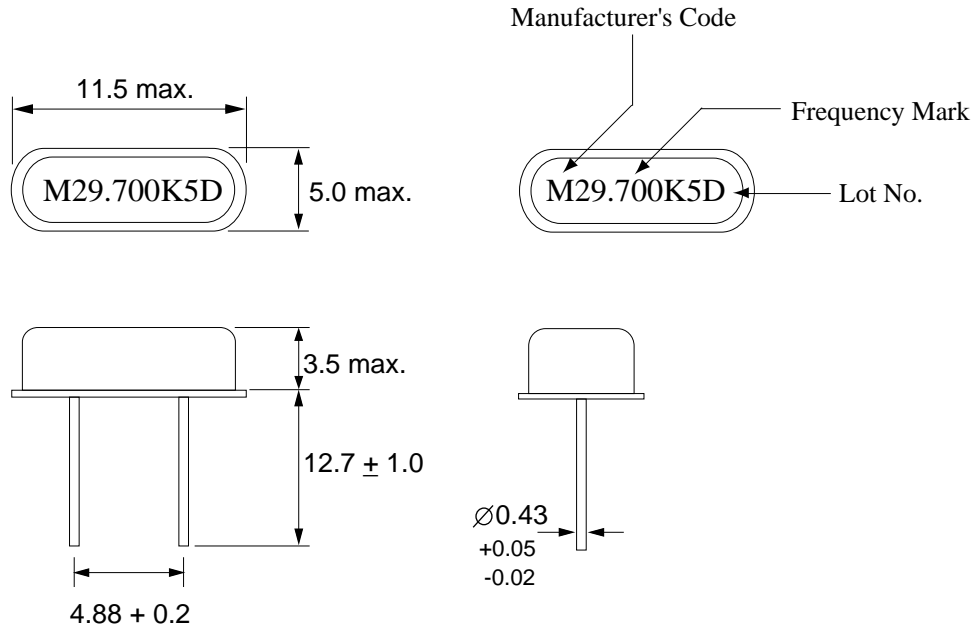
PART NO. :

HC49S-29.7M2030F

ELECTRICAL CHARACTERISTICS

| | |
|--------------------------|--|
| 1. Nominal Frequency | 29.7MHz |
| 2. Holder Type | HC-49S |
| 3. Frequency Tolerance | ± 30 ppm at 25°C |
| 4. Equivalent Resistance | 40 Ohm max. |
| 5. Temperature Tolerance | ± 30 ppm at $-10 \sim +70^{\circ}\text{C}$ |
| 6. Aging | ± 5 ppm/ year |
| 7. Loading Capacitance | 20 pF |
| 8. Drive Level | 100uW |
| 9. Mode of Oscillation | Fundamental |

DIMENSIONS (mm)



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SPECIFICATION OF CRYSTAL UNIT

| No. | Item | Condition of Test |
|-----|----------------|---|
| 1 | Shock Test | Dropping from 75cm height, 3 times on firm wood Variation: Frequency drift < + 20ppm Resistance drift <+ 10 Ohm |
| 2 | Vibration Test | 30 minutes in each direction 10 to 55 Hz, amplitude 0.7 ~ 0.9mm Variation: Frequency drift < \pm 20ppm |
| 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°C \pm 5°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°C ~ 95°C Test time: 3 min. |