

# Kingtronics®

# QKT - HC49SMD QUARTZ CRYSTAL

## FEATURES

- Low cost, Good aging
- Wide frequency range, Pb-free & RoHS Compliance

## PICTURE



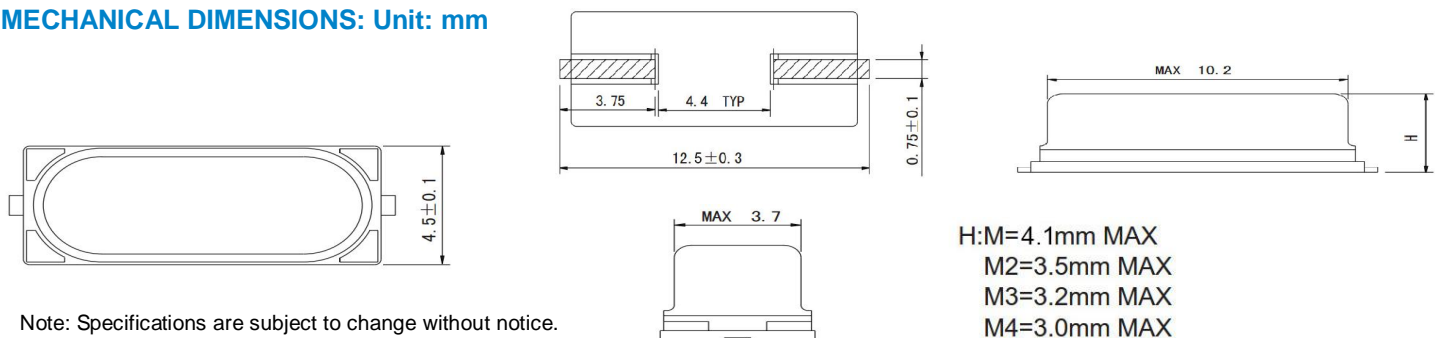
## SPECIFICATIONS

Holder Type	HC-49S SMD 2pad
Frequency Range	3.200 to 100.000 MHZ
Operating Temperature Range	-20°C - +70°C / -40°C - +85°C
Storage Temperature Range	-40°C - +85°C / -55°C - +125°C
Drive Level	100uW typical
Load Capacitance	8pF-32pF or Suggested by customer
Frequency Tolerance	±10ppm to ±30ppm or custom-designed
Frequency Stability	±50ppm or custom-designed
Shunt Capacitance	7.0pF max
Insulation Resistance	500MΩ Min. at DC 100V
Aging First Year	±3ppm/ year Maximum

## EQUIVALENT SERIES RESISTANCE(ESR) AND MODE OF OPERATION

Frequency Range	ESR(Ω)	Mode
$3.200 \leq f < 3.579$ MHZ	250max	Fundamental
$3.579 \leq f < 4.000$ MHZ	150max	Fundamental
$4.000 \leq f < 5.000$ MHZ	120max	Fundamental
$5.000 \leq f < 6.000$ MHZ	100max	Fundamental
$6.000 \leq f < 7.000$ MHZ	80max	Fundamental
$7.000 \leq f < 10.000$ MHZ	60max	Fundamental
$10.000 \leq f < 14.000$ MHZ	50max	Fundamental
$14.000 \leq f < 20.000$ MHZ	40max	Fundamental
$20.000 \leq f < 48.000$ MHZ	30/40 (BT cut) Max	Fundamental
$35.000 \leq f < 40.000$ MHZ	100max	3rd Overtone
$40.000 \leq f < 100.000$ MHZ	80max	3rd Overtone

## MECHANICAL DIMENSIONS: Unit: mm



Note: Specifications are subject to change without notice.

**Kingtronics® International Company**