XOHyb SMD QEN79

Defense airborne – Crystal oscillator – XO
General Specification (rev-A)

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- ❑ True Hybrid product with die and wire bonding to a ceramic substrate
- ❑ 3 points crystal resonator, seam sealing cover.
- ❑ Case type (s) : SMD package 4 J lead 14 x 9 x 3.37mm typical
- ❑ Frequency Range : 1.75MHz to 80MHz
- ❑ Temperature Range : from -40℃ to +85℃ up to -55° C to +125℃
- ❑ Overall Frequency Stability vs. Temperature Range : +/-50 to +/-100ppm
  Including calibration at 25℃ and load and power su pply changes
- ❑ Ageing per year: +/-5ppm at 45℃ first year
- ❑ Output Wave Form : square
- ❑ Supply Voltage : +3.3V or +5V
- ❑ **Options available** : duty cycle 50/50; enable/disable ; tinned pins ; Screening B ; Rugged tests

■ Marking

QEN79 – AH R I 50 MHz DT 50 SB A /T

Supply voltage
AH : 5 V
BH :3.3V

Option
R : duty cycle between 45% and 55%
I   : enable (0V : High impedance)

Frequency at 25℃ +/- 2℃
between 1.5MHz and 80MHz

Temperature range
DT from -40℃ to +85℃
AY from -55℃ to +125℃

Absolute frequency drift
on temperature range
50   : +/- 50ppm
100 : +/- 100ppm

Screening B
according to military standard MIL STD 55310

Rugged tests
VRT : 30 cycles from -55℃ to +125℃ ; 10mn/level,   ramp 30℃/mn
Progressive power-on test from 0V to Vcc
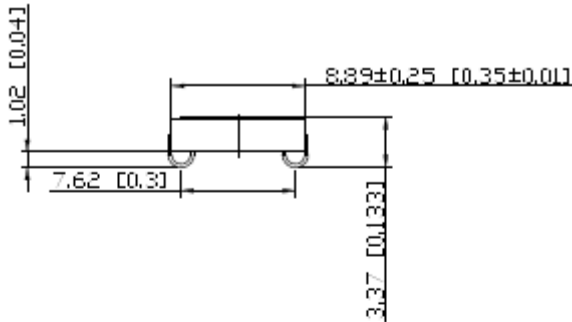Hot and cold start-up additionnaly to temperature drift measurement

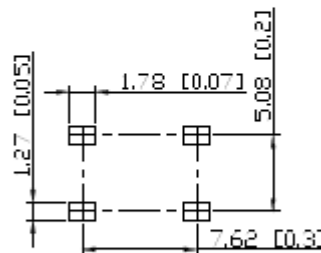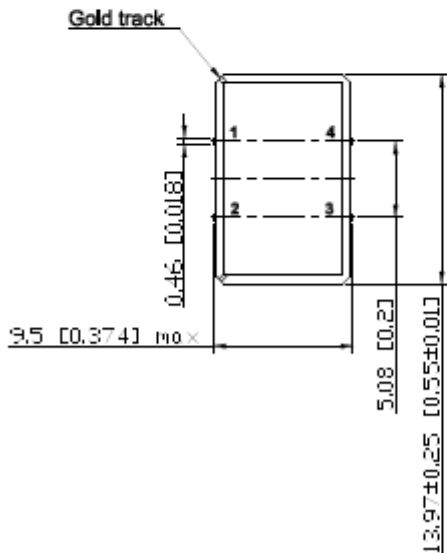**Tinned pins** according to Jedec standard J-STD-0001/D

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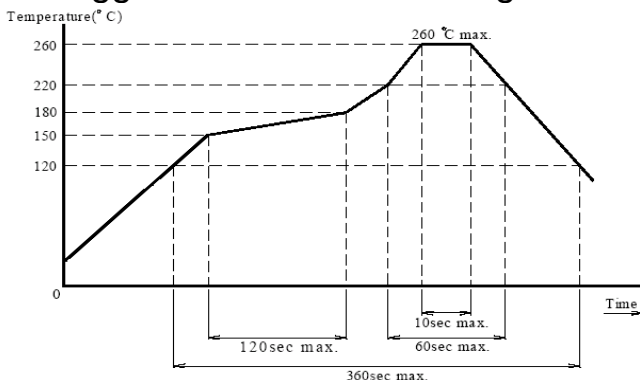
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Mechanical drawing and Pin out

Pin out
 #1 :NC or Enable/disable
 #2 : GND
 #3 : Output frequency
 #4 : Power supply

Suggested Reflow Soldering Profile

Reflow soldering:
two times max