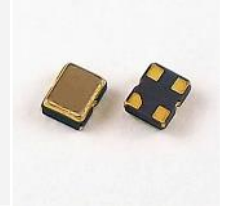


## MINIATURE SMD OSCILLATOR (2.5 x 2.0 x 1.0mm)

### FEATURES:

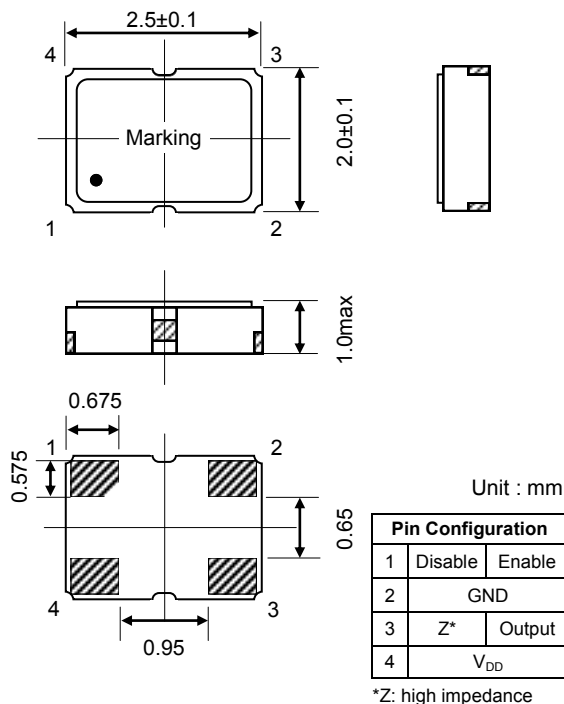
- HCMOS OUTPUT @ 32.768kHz
- LOW POWER CONSUMPTION



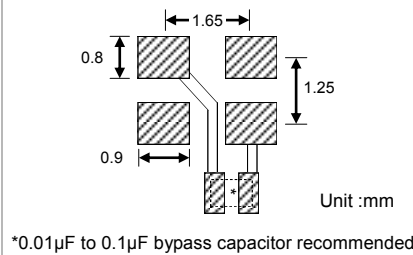
### ■ SPECIFICATION

|                                    |   |  |
|------------------------------------|---|--|
| <b>FREQUENCY</b>                   |   | 32.768kHz  |
| <b>FREQUENCY STABILITY</b>         |   | STD: ±50ppm (See P/N guide for other options)                    |
| <b>OPERATING TEMPERATURE RANGE</b> |   | -40°C ~ 85°C   |
| <b>STORAGE TEMPERATURE RANGE</b>   |   | -55°C ~ 125°C  |
| <b>SUPPLY VOLTAGE ±10%</b>         |   | 1.8V ~ 3.3V  |
| <b>SUPPLY CURRENT</b>              |   | 10µA max.  |
| <b>OUTPUT</b>                      | <b>LOGIC FAMILY</b>                     | HCMOS  |
|                                    | <b>LOAD</b>                             | 15pF   |
|                                    | <b>LEVEL LOGIC '1' (V<sub>OH</sub>)</b> | 0.9 x V <sub>DD</sub> min.                                       |
|                                    | <b>LEVEL LOGIC '0' (V<sub>OL</sub>)</b> | 0.1 x V <sub>DD</sub> max.                                       |
|                                    | <b>SYMMETRY(DUTY CYCLE)</b>             | 40% / 60%  |
|                                    | <b>RISE AND FALL TIME (Tr/Tf)</b>       | 30nS Max.  |
|                                    | <b>START-UP TIME</b>                    | 10mS Max.  |
| <b>STAND-BY VOLTAGE</b>            | <b>ENABLE (V<sub>IH</sub>)</b>          | 0.7 x V <sub>DD</sub> ≤ V <sub>IH</sub> ≤ V <sub>DD</sub> OR N/C |
|                                    | <b>DISABLE (V<sub>IL</sub>)</b>         | V <sub>IL</sub> ≤ 0.3 x V <sub>DD</sub>                          |
| <b>AGING @ +25°C ±3°C</b>          |   | ±3.0ppm / 1 <sup>st</sup> year max.                              |

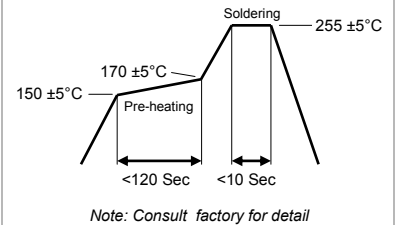
### ■ PACKAGE DIMENSIONS



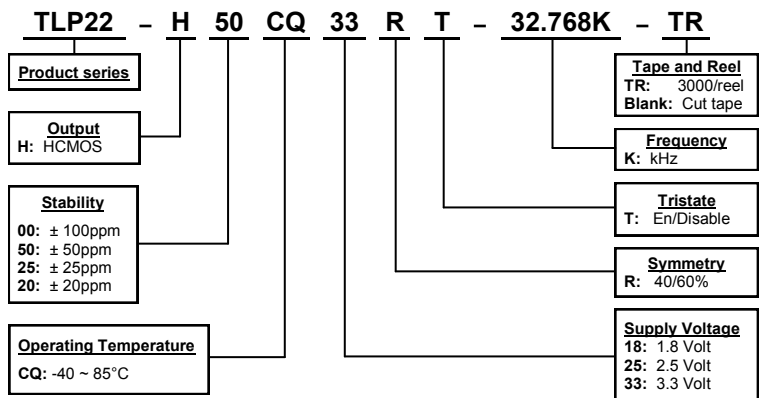
### ■ SOLDER PATTERN



### ■ REFLOW PROFILE



### ■ PART NUMBERING GUIDE



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