

## ULTRA MINIATURE SMD HCMOS OSCILLATOR (1.6 x 1.2 x 0.7mm)

### FEATURES:

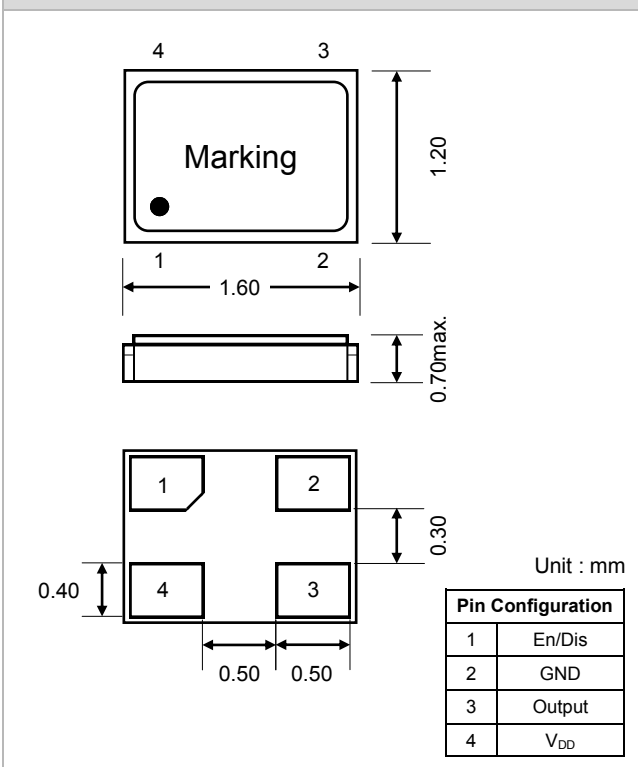
- WIDE FREQUENCY RANGE
- LOW VOLTAGE / LOW CURRENT
- THE WORLD'S SMALLEST QUARTZ CRYSTAL OSCILLATOR



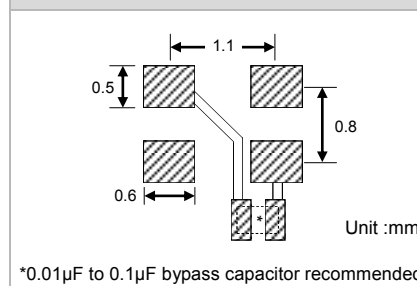
### ■ SPECIFICATION

<b>FREQUENCY RANGE</b>		1.000MHz ~ 80.000MHz
<b>FREQUENCY STABILITY</b>		±15ppm ~ ±100ppm
<b>OPERATING TEMPERATURE RANGE</b>		STD: 0°C ~ 70°C, Option: -40°C ~ 85°C (See P/N guide for other options)
<b>STORAGE TEMPERATURE RANGE</b>		-55°C ~ 125°C
<b>SUPPLY VOLTAGE ±10%</b>		1.8V <sub>DC</sub> ~ 3.3V <sub>DC</sub>
<b>SUPPLY CURRENT</b>		2.0mA max.
<b>OUTPUT</b>	<b>LOGIC FAMILY</b>	HCMOS
	<b>LOAD</b>	15pF
	<b>LEVEL LOGIC '1' (V<sub>OH</sub>)</b>	V <sub>DD</sub> - 0.4V min.
	<b>LEVEL LOGIC '0' (V<sub>OL</sub>)</b>	0.4 V max.
	<b>SYMMETRY(DUTY CYCLE)</b>	STD: 40% / 60% @ 1/2V <sub>DD</sub> level, Option: 45% / 55%
	<b>RISE AND FALL TIME (Tr/Tf)</b>	5nS max.
	<b>START-UP TIME</b>	5mS 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>ENABLE DELAY TIME</b>		10mS max.
<b>DISABLE DELAY TIME</b>		10mS max.
<b>AGING @ 25°C ± 3°C</b>		±3.0ppm / 1 <sup>st</sup> year max.
<b>PHASE JITTER RMS (12kHz ~ 5MHz)</b>		1.0pS max.

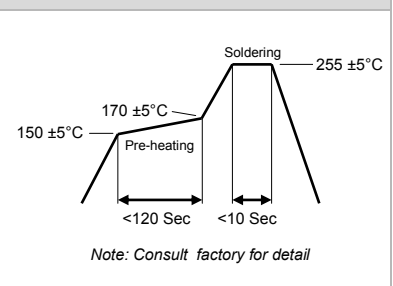
### ■ PACKAGE DIMENSIONS



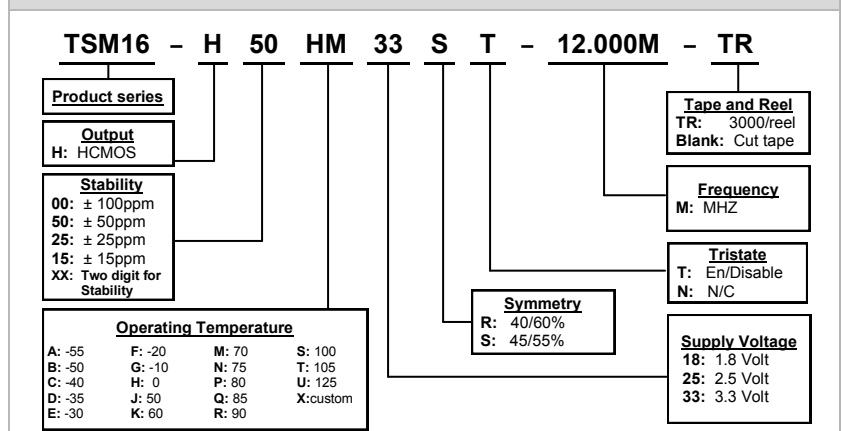
### ■ SOLDER PATTERN



### ■ REFLOW PROFILE



### ■ PART NUMBERING GUIDE



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