

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

FEATURES:

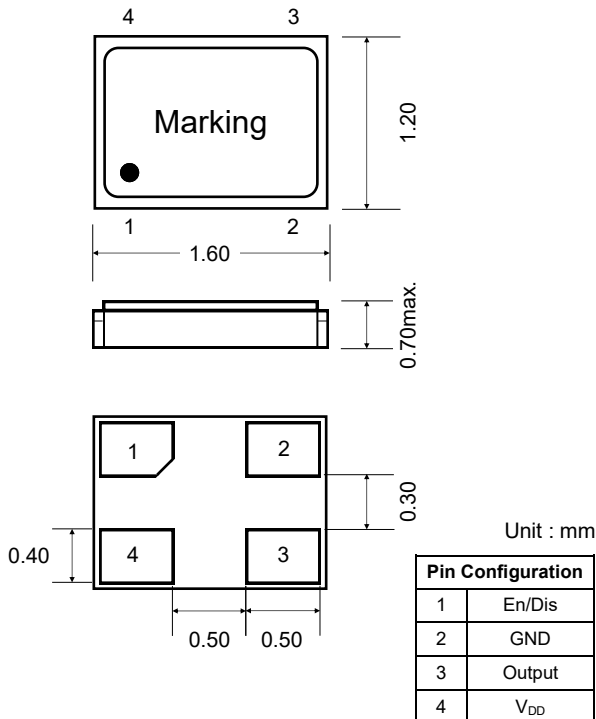
- WIDE FREQUENCY RANGE
- LOW VOLTAGE / LOW CURRENT
- THE WORLD'S SMALLEST QUARTZ CRYSTAL OSCILLATOR



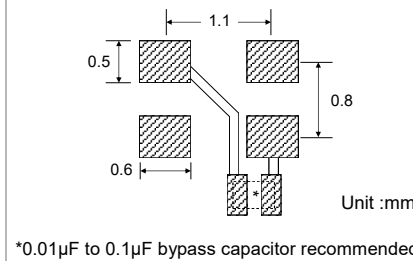
■ SPECIFICATION

FREQUENCY RANGE		1.000MHz ~ 80.000MHz
FREQUENCY STABILITY		±15ppm ~ ±100ppm
OPERATING TEMPERATURE RANGE		STD: 0°C ~ 70°C, Option: -40°C ~ 85°C (See P/N guide for other options)
STORAGE TEMPERATURE RANGE		-55°C ~ 125°C
SUPPLY VOLTAGE ±10%		1.8V _{DC} ~ 3.3V _{DC}
SUPPLY CURRENT		2.0mA max.
OUTPUT	LOGIC FAMILY	HCMOS
	LOAD	15pF
	LEVEL LOGIC '1' (V_{OH})	V _{DD} - 0.4V min.
	LEVEL LOGIC '0' (V_{OL})	0.4 V max.
	SYMMETRY(DUTY CYCLE)	STD: 40% / 60% @ 1/2V _{DD} level, Option: 45% / 55%
	RISE AND FALL TIME (Tr/Tf)	5nS max.
	START-UP TIME	5mS max.
STAND-BY VOLTAGE	ENABLE (V_{IH})	0.7 x V _{DD} ≤ V _{IH} ≤ V _{DD} or N/C
	DISABLE (V_{IL})	V _{IL} ≤ 0.3 x V _{DD}
ENABLE DELAY TIME		10mS max.
DISABLE DELAY TIME		10mS max.
AGING @ 25°C ± 3°C		±3.0ppm / 1 st year max.
PHASE JITTER RMS (12kHz ~ 5MHz)		1.0pS max.

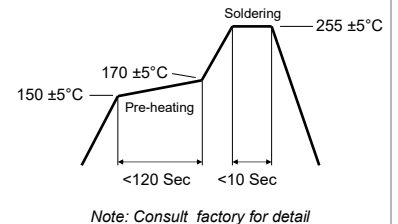
■ PACKAGE DIMENSIONS



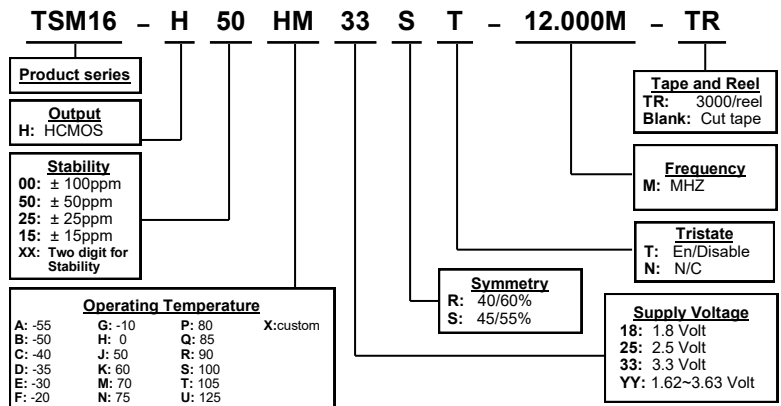
■ SOLDER PATTERN



■ REFLOW PROFILE



■ PART NUMBERING GUIDE



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