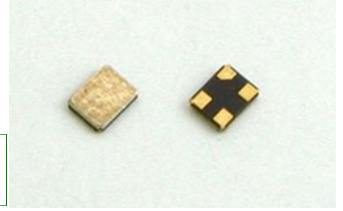


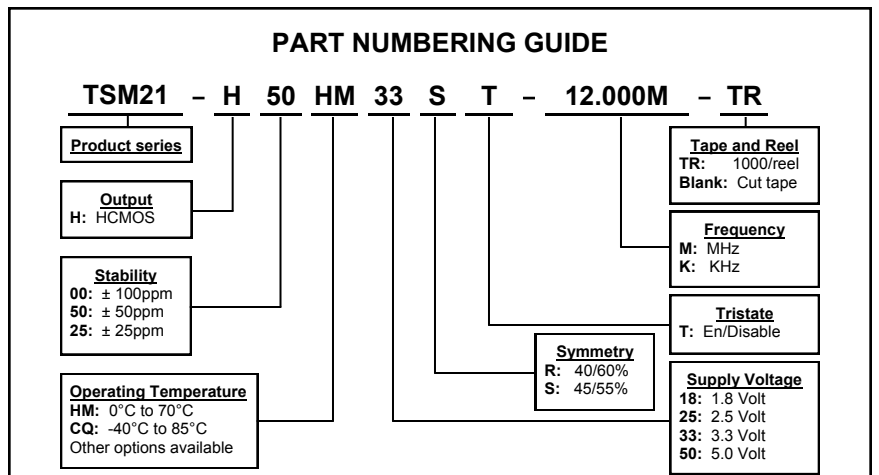
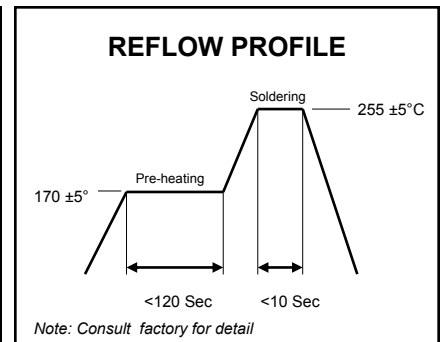
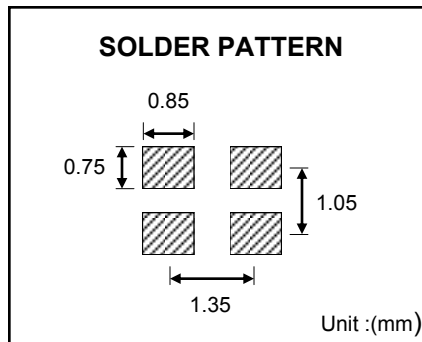
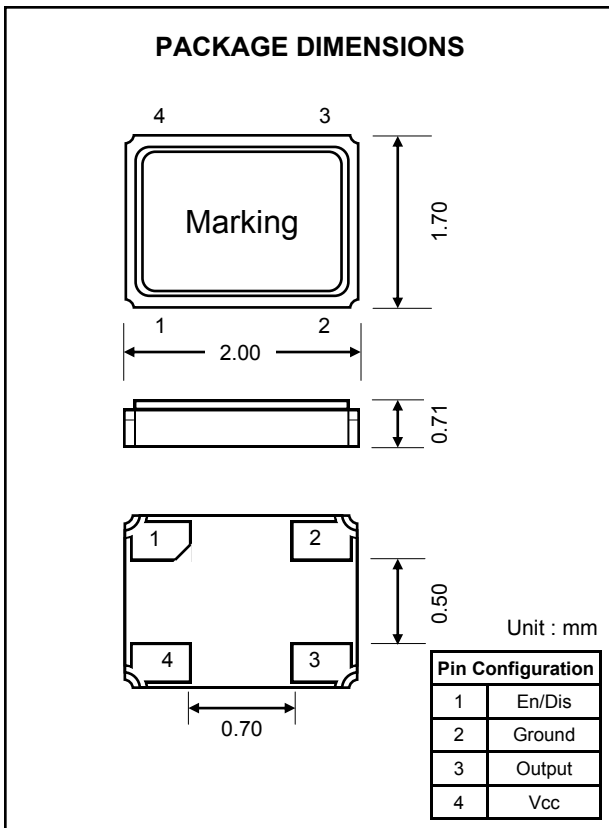
ULTRA MINIATURE SMD HCMOS OSCILLATOR (2.0 x 1.7 x 0.71mm)
FEATURES:

- WIDE FREQUENCY RANGE
- LOW VOLTAGE / LOW CURRENT
- ENABLE / DISABLE

RoHS
Compliant



MODEL	TSM21		
SUPPLY VOLTAGE	1.8V	2.5V	3.3V
FREQUENCY RANGE	1.000MHz ~ 60.000MHz		1.000MHz ~ 80.000MHz
FREQUENCY STABILITY*	± 25ppm ~ ± 100ppm*		
OUTPUT	HCMOS		
OPERATING TEMPERATURE	0°C to 70°C, Option: -40°C to 85°C		
INPUT CURRENT	15mA max.	17mA max.	18mA max.
DUTY CYCLE	R: 40/60%, S: 45/55% @ 1/2 VDD level		
RISE TIME	5.0nS typical, 10.0nS max		
FALL TIME	5.0nS typical, 10.0nS max		
OUTPUT VOLTAGE VoH	90% VDD min.		
OUTPUT VOLATGE VoL	10% VDD max.		
OUTPUT LOAD	15pF max.		
START UP TIME	10mS max.		
AGING	± 3.0ppm max./year @ 25°C ± 3°C		
PIN# 1 TRISTATE	Enable / Disable		



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