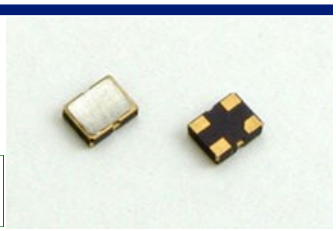
Transko

TSM32

ULTRA MINIATURE SMD CMOS OSCILLATOR (3.2 x 2.5 x 1.0mm)



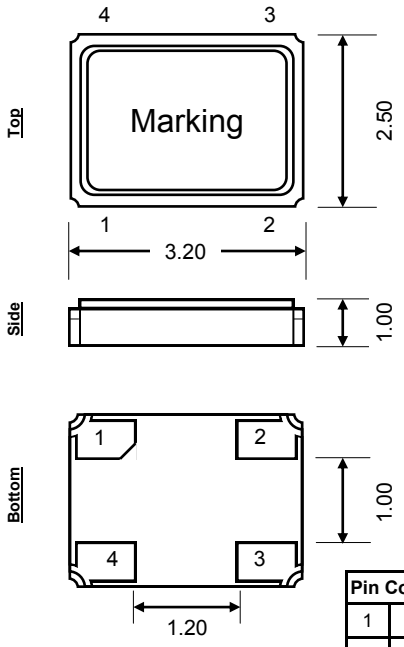
FEATURES:

- LOW COST SMALL SMD PACKAGE
- LOW VOLTAGE/LOW CURRENT
- ENABLE / DISABLE

RoHS Compliant

MODEL	TSM32		
SUPPLY VOLTAGE	1.8V	2.5V	3.3V
FREQUENCY RANGE	500.000KHz ~ 133.000MHz		500.000KHz ~ 80.000MHz
FREQUENCY STABILITY	± 15ppm ~ ± 100ppm		
OUTPUT	HCMOS		
OPERATING TEMPERATURE	0°C to 70°C, option: -40°C to 85°C		
INPUT CURRENT	14mA max.	24mA max.	40mA max.
DUTY CYCLE	40/60% max. @ 1/2 VDD level, option: 45/55%		
RISE/FALL TIME	4.0nS typical, 10.0nS max.		
OUTPUT VOLTAGE VoH/VoL	90% VDD min. / 10% VDD max.		
OUTPUT LOAD	15pF max.		
START UP TIME	10mS max.		
AGING	± 5.0ppm max. @ 25°C ± 3°C		
PIN# 1 TRISTATE	ViH 0.7 x VDD min. = Oscillation ViL 0.3 x VDD max. = Stop oscillation, High impedance		
DISABLE PHASE DELAY TIME	100nS max.		
ENABLE PHASE DELAY TIME	10mS max.		

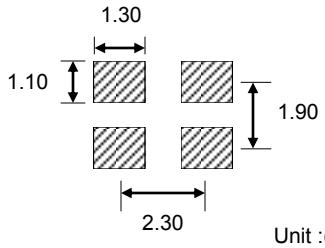
PACKAGE DIMENSIONS



Unit : mm

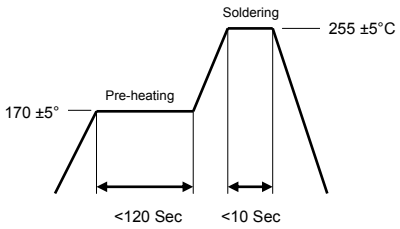
Pin Configuration	
1	En/Dis
2	Ground
3	Output
4	Vcc

SOLDER PATTERN



Unit :(mm)

REFLOW PROFILE



Note: Consult factory for detail

PART NUMBERING GUIDE

TSM32 – H 50 HM 33 S T – 12.000M – TR

Product series

Output
H: HCMOS

Stability
00: ± 100ppm
50: ± 50ppm
25: ± 25ppm
15: ± 15ppm
10: ± 10ppm

Operating Temperature
HM: 0°C to 70°C
CQ: -40°C to 85°C
AU: -55°C to 125°C
Other options available

Symmetry
R: 40/60%
S: 45/55%

Supply Voltage
18: 1.8 Volt
25: 2.5 Volt
33: 3.3 Volt

Tristate
T: En/Disable

Frequency
M: MHz

Tape and Reel
TR: 1000/reel
Blank: Cut tape

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