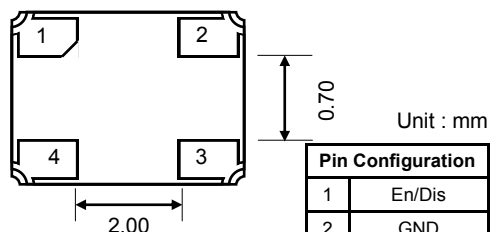
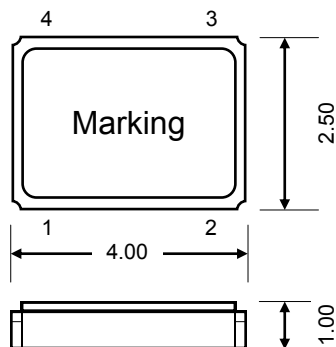


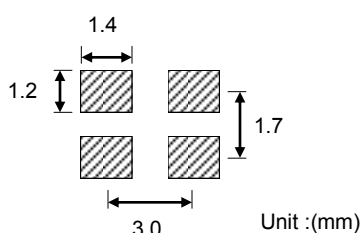
MINIATURE SMD REAL TIME OSCILLATOR (4.0 x 2.5 x 1.0mm)
FEATURES:

- HCMOS OUTPUT @ 32.768KHz
- LOW VOLTAGE
- LOW CURRENT

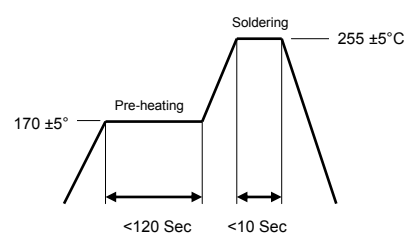
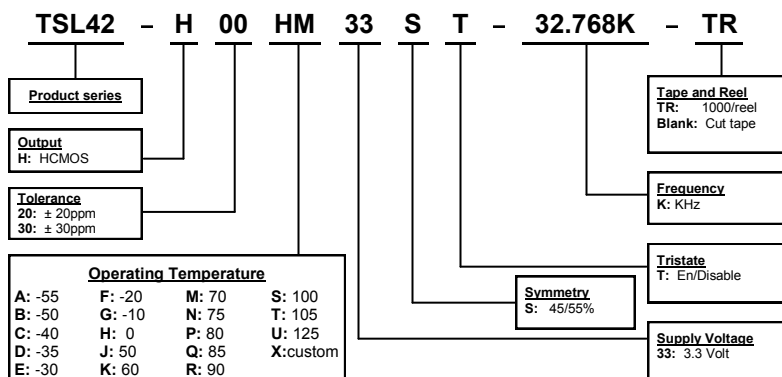
MODEL	TSL42
FREQUENCY RANGE	32.768KHz
SUPPLY VOLTAGE $\pm 10\%$	3.3V
FREQUENCY TOLERANCE @ 25°C	± 30 ppm max.
OUTPUT	HCMOS
OPERATING TEMPERATURE	-40°C to 85°C
INPUT CURRENT	1.5uA max ($V_{DD} = 3.3V$ without load over -40 to 85°C)
DUTY CYCLE	45/55% max. @ 1/2 V_{DD} level
RISE/FALL TIME	100nS typical, 200nS max
OUTPUT LOGIC '1' LEVEL (V_{oh})	$V_{DD} - 0.4V$ min. (CL = 15pF at 25°C)
OUTPUT LOGIC '0' LEVEL (V_{ol})	$V_{DD} - 0.4V$ max. (CL = 15pF at 25°C)
OUTPUT LOAD	15pF max.
START UP TIME	3.0 sec max.
AGING	± 5.0 ppm max. @ 25°C $\pm 3^\circ C$
PIN# 1 TRISTATE	V_{IH} 90% V_{DD} min. = Oscillation V_{IL} 10% V_{DD} max. = High impedance
DISABLE PHASE DELAY TIME	100nS max.
ENABLE PHASE DELAY TIME	3.0 sec max.

PACKAGE DIMENSIONS


Pin Configuration	
1	En/Dis
2	GND
3	Output
4	V_{DD}

SOLDER PATTERN


Unit : (mm)

REFLOW PROFILE

PART NUMBERING GUIDE


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