

## MINIATURE CERAMIC SMD OSCILLATOR (7.0 x 5.0 x 1.8mm)

### FEATURES

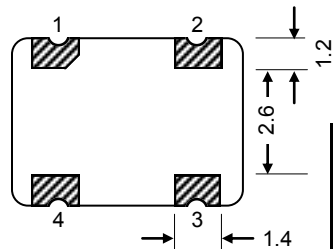
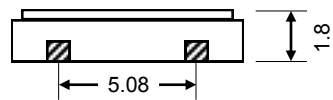
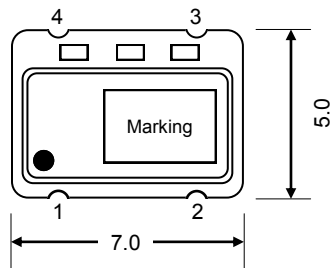
- 32.768KHz REAL TIME CLOCK
- INDUSTRIAL TEMPERATURE RANGE
- LOW CURRENT / LOW VOLTAGE

RoHS  
Compliant



| MODEL                  | TSL75                                 |
|------------------------|---------------------------------------|
| FREQUENCY RANGE        | 10 KHz ~ 200 KHz (32.768KHz Standard) |
| TEMPERATURE STABILITY  | ±10ppm ~ ±100ppm                      |
| OPERATING TEMPERATURE  | 0°C ~ 70°C to -40°C ~ 85°C            |
| STORAGE TEMPERATURE    | -55°C to 125°C                        |
| INPUT VOLTAGE          | 3.3 Vdc ±10%                          |
| INPUT CURRENT          | 5 mA Max.                             |
| OUTPUT '0' LEVEL (Vol) | 0.33V Max                             |
| OUTPUT '1' LEVEL (Voh) | 2.97V Min                             |
| SYMMETRY               | 45/55% or 40/60%                      |
| RISE & FALL TIME       | 25 nS Max.                            |
| START UP TIME          | 10 mS Max.                            |
| OUTPUT LOAD            | 15 pF or 10TTL                        |
| AGING                  | ±5 ppm / year Max.                    |

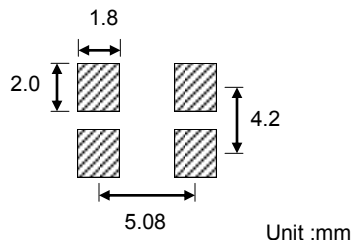
### PACKAGE DIMENSIONS



Unit : mm

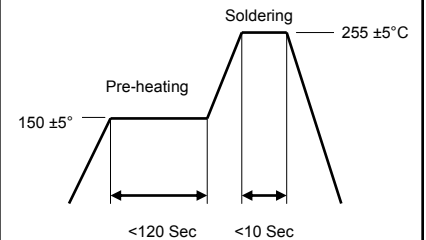
| Pin Configuration |            |
|-------------------|------------|
| 1                 | En/Disable |
| 2                 | Ground     |
| 3                 | Output     |
| 4                 | Vcc        |

### SOLDER PATTERN



Unit :mm

### REFLOW PROFILE



Note: Consult factory for details

### PART NUMBERING GUIDE

TSL75 - H 50 HM 33 S T - 32.768K - TR

