Travelling Merchant:_____

# DATASHEET

Standard: **T75B-ACAFCN-12.80MHz**

| Plot | | | The Label |
|---|---|---|---|
| Drawing | Auditing | Approve | |
| | | | |
| Date: | | | Stamp, please! Thanks! |


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# The parameter of product

**MODEL：T75B-ACAFCN-12.80MHz**

1. Output

| | |
|---|---|
| 1.1. Nominal Frequency | 12.80MHz |
| 1.2. Waveform | CMOS<br>Voh≥2.8V, Vol≤0.4V |
| 1.3. Duty cycle | 45%~55% @ 50% |
| 1.4. Rise / Fall time(10%~90% ) | ≤4ns |

2. Frequency Stabilities

| | | |
|---|---|---|
| 2.1. Stability vs. operating temp. rang | ≤±1.0 x$10^{-6}$ | @-20°C ~ +70°C ref. to 25 °C |
| 2.2. Stability vs supply changes | ≤±3.0x$10^{-7}$ | @+3.3VDC ±5% |
| 2.3. Stability vs load changes | ≤±2.0x$10^{-7}$ | @ 1~3TTL |
| 2.4. Overall tolerance | ≤±4.6 x$10^{-6}$ | @25°C, Temperature -20 to 70°C, Supply Voltage 3.3V±5% ,Load variation, Ageing 20 years |
| 2.5. Aging | ≤±2.0x$10^{-8}$/ day<br>≤±1.0x$10^{-6}$/ first year | |

3. Supply Voltage

| | |
|---|---|
| 3.1. Supply Voltage | +3.3VDC ±5% |

4. Current

| | |
|---|---|
| 4.1. Current consumption | ≤4.0mA |

5. Environmental conditions

| | |
|---|---|
| 5.1. Operable temperature range | -20°C to +70°C |
| 5.2. Storage temperature range | -40°C to +85°C |
| 5.3. Vibration | Test Condition: 1.52mm (amplitude, 5～26Hz), 19.6m/s (26～500Hz), 20 min per1 cycle, test 2 hour. (3 times for each 3 planes) |
| 5.4. Shock | 980m/$s^2$, 6msec wave, 3 times for each 3 planes |
| 5.5. Drop | Test Condition: 1 drop on hard wood from 75cm height in each 3 planes |
| 5.6. Save | Recommend keep it on 30°C, 70%RH (humidity) |

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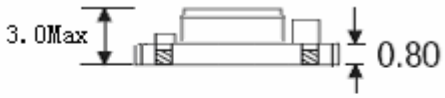
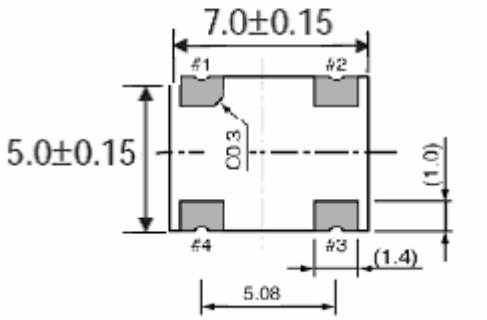
6. Mechanical

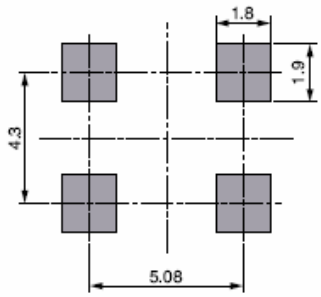



Pin Connections

| | |
|---|---|
| #1 | NC |
| #2 | GND |
| #3 | Output |
| #4 | Vcc |

**Solder pad layout**




**Note:** The bottom view means that the stitches are against the people **Unit : mm**

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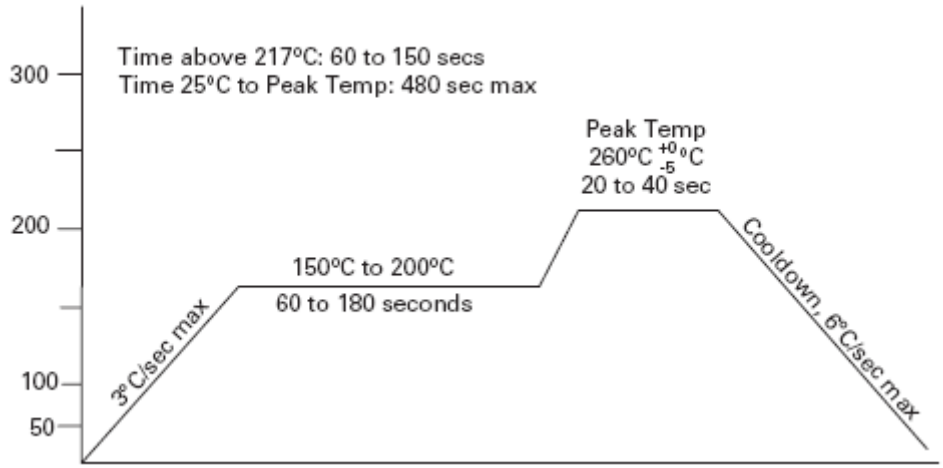
7. Lead Free Reflow Soldering Profile




Note: These profiles were used during the qualification testing of the product and therefore represent worst case conditions. They are not recommended for use by the customer in the actual assembly of these parts.