Travelling Merchant:_____

# DATASHEET

Standard: **OSC5310W-77.76MHz**

| Plot | | | The Label |
|---|---|---|---|
| Drew | Audited | Approved | |
| | | | |
| Date: 2009-09-16 | | | Stamp, please! Thanks! |


## Dongguan Dapu Telecom Technology Co.,Ltd.

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# The Parameter of Product

**MODEL：OSC5310W-77.76MHz**

1. Output

| | |
|---|---|
| 1.1. Frequency | 77.76MHz |
| 1.2. Waveform | HCMOS<br>$V_{OH}\geqslant 90\%V_{DD}$ , $V_{OL}\leqslant 10\%V_{DD}$ |
| 1.3. Duty cycle | 40%~60% @50% |
| 1.4. Rise/fall time(10%~90% ) | ≤8ns |
| 1.5. Warm-up time | 10ms |
| 1.6. Load | 15pF±10% |

2. Frequency Stability

| | |
|---|---|
| 2.1. Temperature Stability | ≤±5.0x10$^{-5}$ （**All condition* )** @-40°C ~ +85°C ref. to @25 °C |
| 2.2. Initial Frequency | ≤±2.0x10$^{-5}$ @25℃ |
| 2.3. Aging | ≤±5.0x10$^{-6}$/ first year |

3. Power Supply

| | |
|---|---|
| 3.1. Operating Voltage | +3.3VDC (unalterable) |

4. Current

| | |
|---|---|
| 4.1. Operating Current | 30mA (Typical) |

5. Environment Characteristics

| | |
|---|---|
| 5.1. Operating Temperature | -40°C to +85°C |
| 5.2. Storage Temperature | -55°C to +125°C |
| 5.3. Relative Humidity | 25% to 80% |

**All condition*：** Include 25°C tolerance, operating temperature range , input voltage change, aging, load change, shock and vibration.

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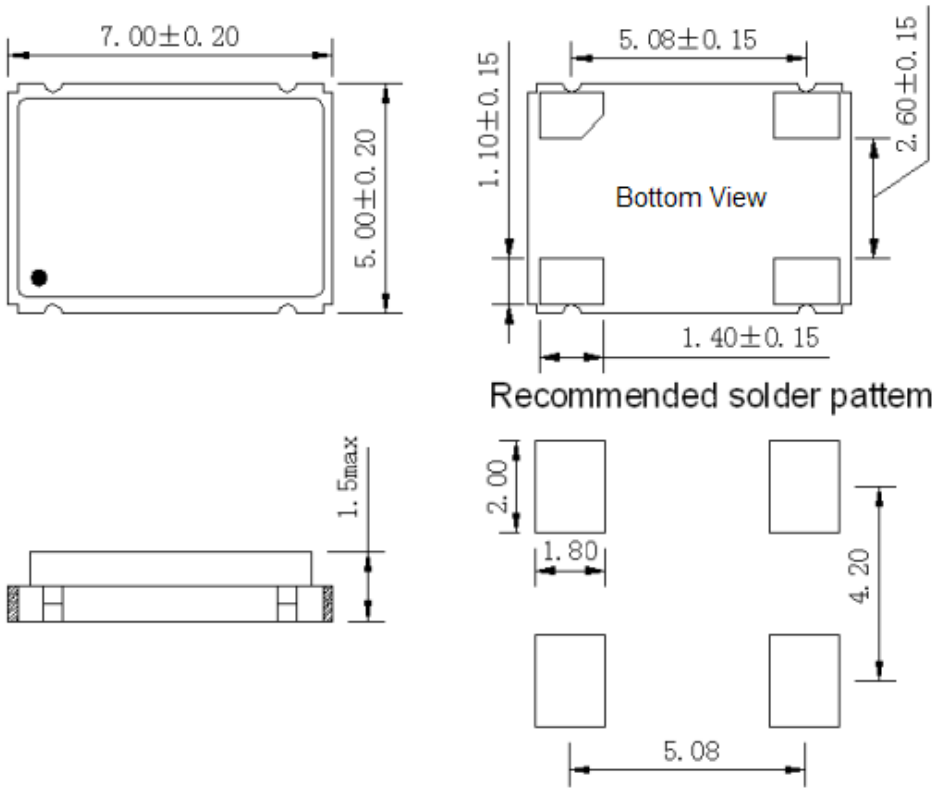
6. Mechanical Structure

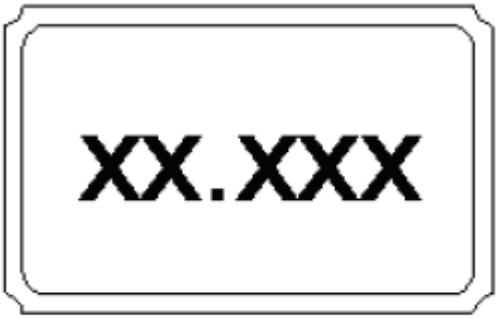
- Outline Dimensions (mm)




| Pin | Connection |
|---|---|
| 1 | INH |
| 2 | GND |
| 3 | Output |
| 4 | $V_{DD}$ |

Note: 0.01μF bypass capacitor should be placed between $V_{DD}$ (pin4) and GND (pin2) to minimize power supply line onise.

- MARKING




6 Digitals: Frequency in MHz

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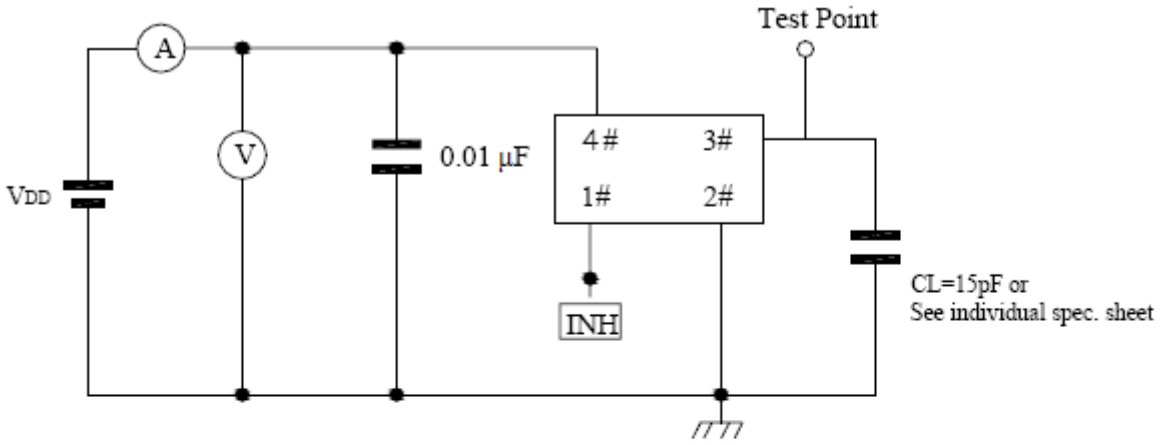
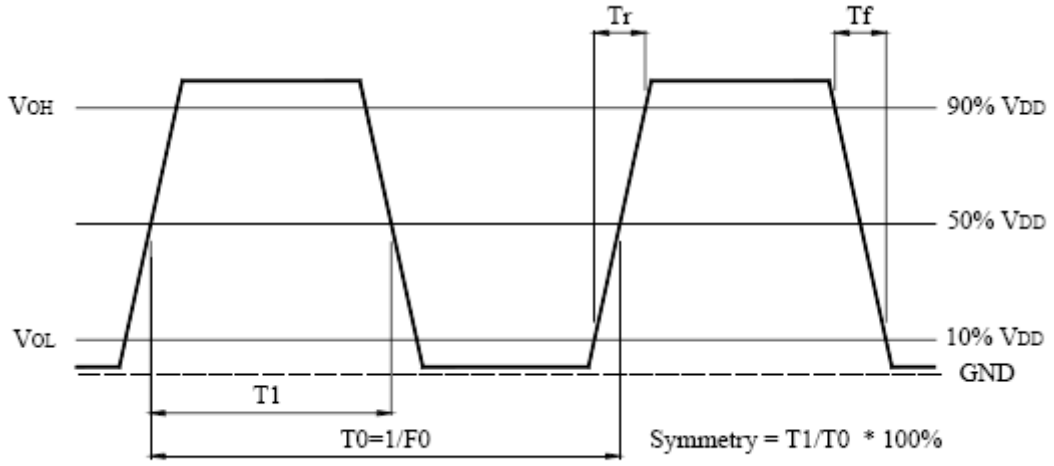
7. HCMOS test circuit




| Enable/Disable Function | |
|---|---|
| Input (pin 1) | Output (pin 3) |
| Open | Enable |
| $V_{IH} \geqslant 0.8V_{DD}$ | Enable |
| $V_{IH} \leqslant 0.3V_{DD}$ | Disable |

8. HCMOS output waveform



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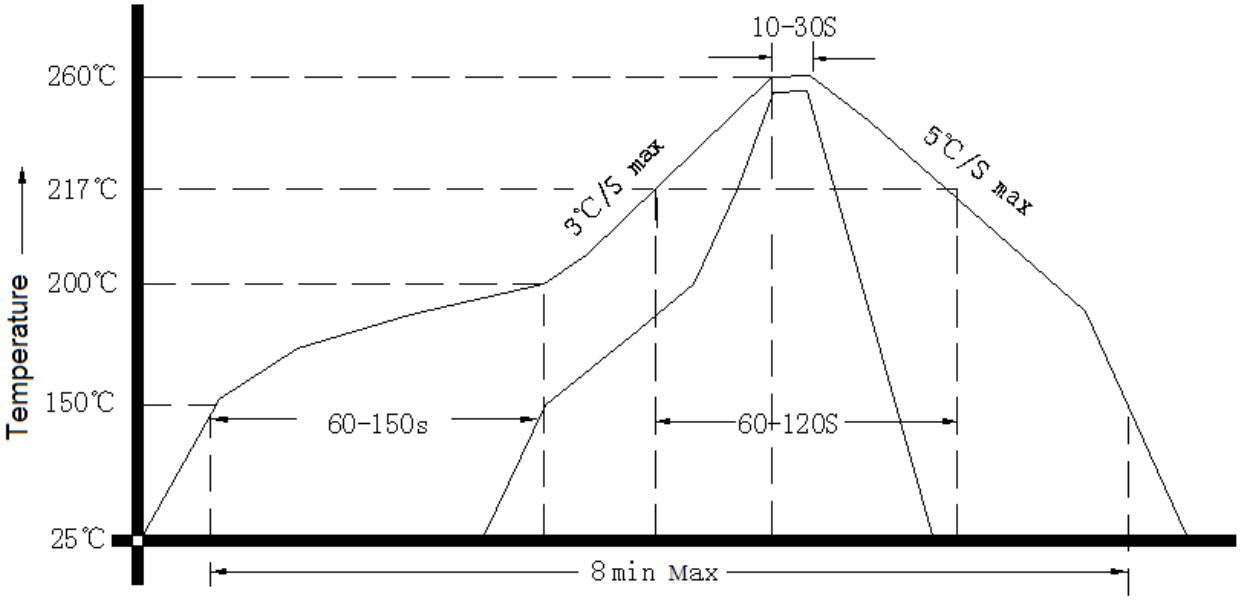
9. Reflow Soldering



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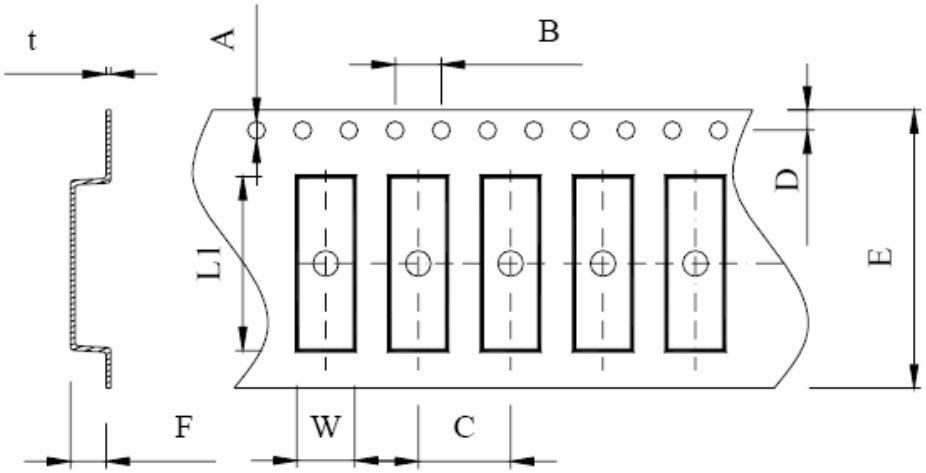
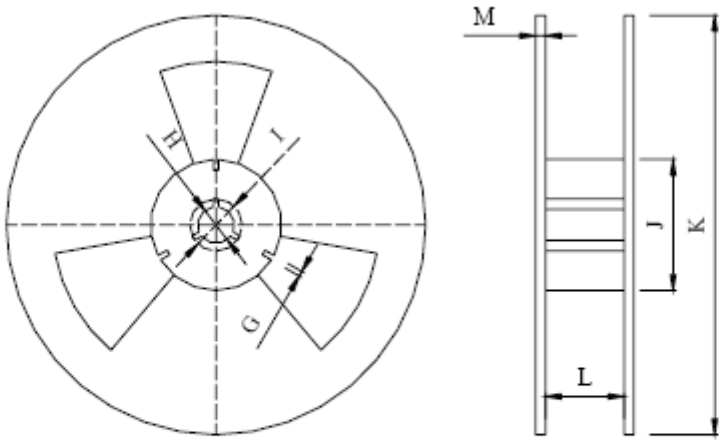
10. Reel Dimensions(mm)




| A | B | C | D | E | F | L1 | W | t |
|---|---|---|---|---|---|---|---|---|
| 1.50 | 4.0 | 4.0 | 1.75 | 8.0 | 1.0 | 7.5 | 5.4 | 0.3 |




| G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|
| 2.5 | 13.5 | 21.6 | 60.0 | 178 | 17.5 | 1.6 |

*1000pcs/Reel