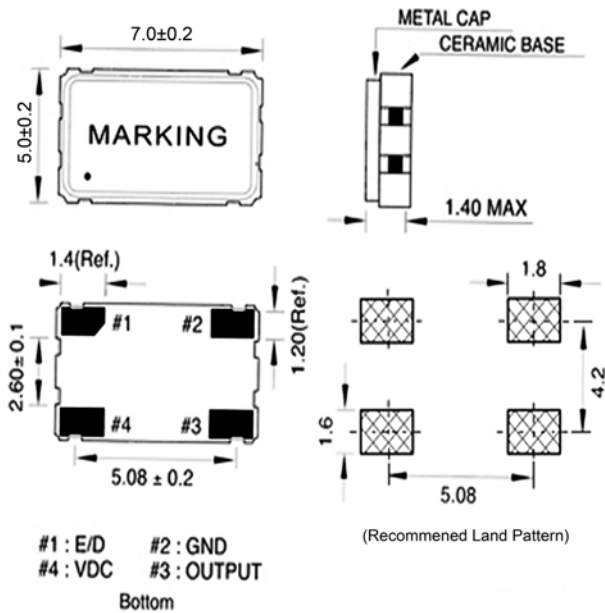


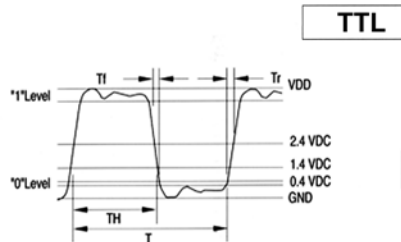
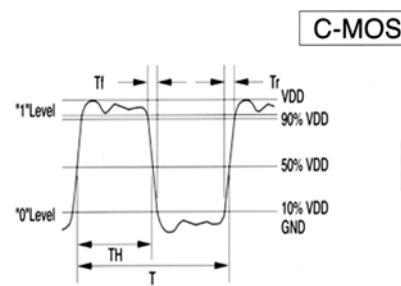
### ● SPECIFICATION

| Model                       | OSC-S7 SERIES   |                            |                               |                              |                              |
|-----------------------------|---|----------------------------|-------------------------------|------------------------------|------------------------------|
| Power supply voltage        | 5V DC ±10%  | 5V DC ±10%                 | 3.3V DC ±10%                  | 2.5V DC ±5%                  | 1.8V DC ±5%                  |
| Output level                | TTL   | C-MOS                      |                               |                              |                              |
| Frequency range             | 0.500 ~ 100.000 MHz   |                            | 0.500 ~ 156.000 MHz           |                              |                              |
| Storage temperature range   | -55°C ~ +125°C  |                            |                               |                              |                              |
| Operating temperature range | -10°C ~ +70°C, -40°C ~ +85°C  |                            |                               |                              |                              |
| Frequency stability         | ±20ppm ~ ±100ppm  |                            |                               |                              |                              |
| Current consumption         | 0.500~9.999MHz:15mA max.  | 0.500~9.999MHz:10mA max.   | 0.500~19.999MHz:7mA max.      | 0.500~9.999MHz:6mA max.      | 0.500~9.999MHz:5mA max.      |
|                             | 10.000~19.999MHz:20mA max.  | 10.000~19.999MHz:15mA max. |                               | 10.000~31.999MHz:8mA max.    | 10.000~31.999MHz:6mA max.    |
|                             | 20.000~31.999MHz:30mA max.  | 20.000~31.999MHz:25mA max. | 20.000~31.999MHz:12mA max.    |                              |                              |
|                             | 32.000~49.999MHz:40mA max.  | 32.000~49.999MHz:35mA max. | 32.000~49.999MHz:20mA max.    | 32.000~79.999MHz:20mA max.   | 32.000~79.999MHz:15mA max.   |
|                             | 50.000~79.999MHz:50mA max.  | 50.000~79.999MHz:50mA max. | 50.000~79.999MHz:25mA max.    |                              |                              |
|                             | 80.000~99.999MHz:60mA max.  | 80.000~99.999MHz:60mA max. | 80.000~99.999MHz:30mA max.    | 80.000~99.999MHz:25mA max.   | 80.000~99.999MHz:20mA max.   |
|                             | 100.000MHz:80mA max.  | 100.000MHz:80mA max.       | 100.000~156.000MHz:40mA max.  | 100.000~156.000MHz:30mA max. | 100.000~156.000MHz:25mA max. |
| Load                        | 10pF (TTL)  |                            | 15pF or 50pF                  |                              |                              |
| Output voltage level        | V <sub>OL</sub> :10%V <sub>dd</sub> max. / V <sub>OH</sub> :90%V <sub>dd</sub> min. |                            |                               |                              |                              |
| Duty cycle                  | 40%~60% ( at 1.4V DC )  |                            | 40%~60% at 1/2V <sub>dd</sub> |                              |                              |
| RISE / FALL TIME            | 0.500~31.999MHz:10nS max.   | 0.500~31.999MHz:10nS max.  | 0.500~49.999MHz:10nS max.     | 0.500~49.999MHz:5nS max.     | 0.500~49.999MHz:5nS max.     |
|                             |   | 32.000~49.999MHz:6nS max.  |                               |                              |                              |
|                             | 32.000~99.999MHz:5nS max.   | 50.000~99.999MHz:5nS max.  | 50.000~79.999MHz:8nS max.     | 50.000~79.999MHz:4nS max.    | 50.000~79.999MHz:4nS max.    |
|                             |   |                            | 80.000~99.999MHz:5nS max.     |                              |                              |
|                             | 100.000MHz:4nS max.   | 100.000MHz:4nS max.        | 100.000~156.000MHz:4nS max.   | 80.000~156.000MHz:3nS max.   | 80.000~156.000MHz:3nS max.   |
| AGING                       | ±3ppm/Year  |                            |                               |                              |                              |

### ● DIMENSION (mm)



### ● OUTPUT WAVEFORM



### ● TEST CIRCUIT

