

Crystal Clock Oscillator

2775 Series

Programmable Type

Model name

2775W Frequency stability of $\pm 100 \times 10^{-6}$.

Application

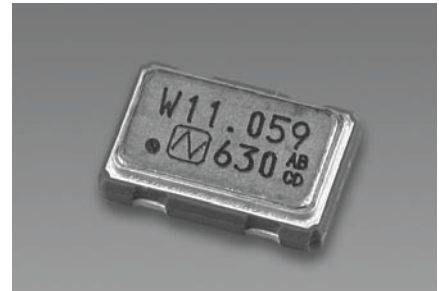
- For compact mobile information equipment, such as a notebook PC, mobile information terminal, and PC card

Features

- PLL technology allows this crystal oscillator to support 1 to 125 MHz.
- With the adoption of frequency-writing technology, even the tightest delivery deadline can be met.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- Compact and light with the following dimensions and weight of 5.0 x 3.2 mm, 1.0 mm, and 0.06 g.

Pb Free

RoHS Compliant
Directive 2002/95/EC



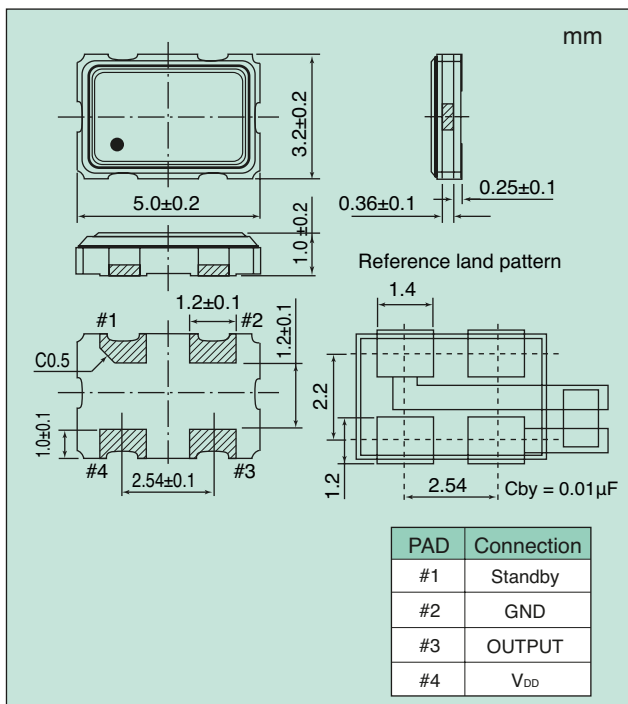
Absolute maximum rating
Power supply voltage (V_{DD}) -0.5 to +7.0V DC
Storage temperature range -55 to +125°C

Specifications

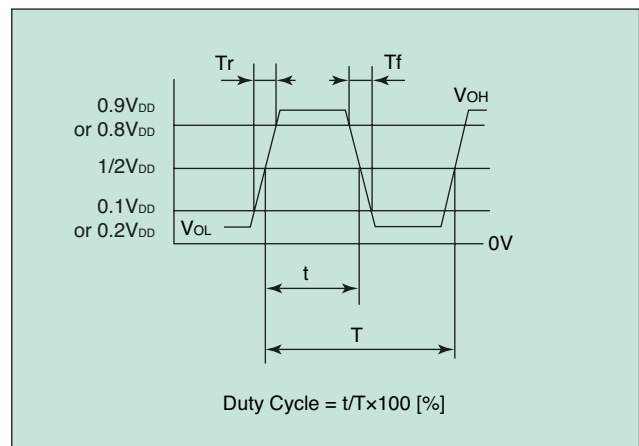
| Item | Model | 2775W | | |
|--|----------------------|---|------------------|-------------------------------------|
| Output level | | C-MOS | | |
| Frequency range ¹ | (MHz) | $1 \leq F \leq 40$ | $40 < F \leq 70$ | $70 < F \leq 125$ |
| Operating temperature range ² | (°C) | -20 to +70 | | |
| Frequency stability | ($\times 10^{-6}$) | ± 100 | | |
| Power supply voltage | (V) | +5.0 \pm 0.5 | | |
| Consumption current | During operation | (mA) | 25 | 40 |
| | During standby | (μ A) | 50 | |
| V_{OL} max/ V_{OH} min | (V) | 0.1 V_{DD} /0.9 V_{DD} I_{OL} =8mA I_{OH} =-8mA | | |
| T_r max/ T_f max | (ns) | 5/5 (0.1 V_{DD} to 0.9 V_{DD}) | | 3/3 (0.2 V_{DD} to 0.8 V_{DD}) |
| Duty Cycle min. to max. | (%) | 45 to 55 (at 1/2 V_{DD}) | | 40 to 60 (at 1/2 V_{DD}) |
| Load (C_L) max | (pF) | 15 | | |
| Oscillation start time max | (ms) | 10 | | |
| Standby function | | Available (tristate) | | |
| Number for specifying an order | | NSA5313A | | |

¹: If you require a product with a frequency not given above, please contact us. ²: If you require a product with an operating temperature range not given above, please contact us.

Dimensions



Output Waveform <C-MOS>



Standby Function

| #1 Input | #3 Input |
|---|------------------------------------|
| Level H (+2 V min.) or OPEN is selected. | Oscillation output ON |
| Level L (+0.8 V max.) is selected. | High impedance (weak pull-down) |

How to Specify an Order

When ordering our products, specify them with an "Ordering Code" that consists of the following:

Model name - Frequency (up to 9 digits) M - Number for specifying an order

If you have any queries concerning our standard frequencies and numbers for specifying orders, please contact our sales representatives or visit our homepage (<http://www.ndk.com/>).

Example 1: When ordering a product with model name: 2775W, frequency: 11.059 MHz, frequency stability: $\pm 100 \times 10^{-6}$, and power supply voltage: 5.0 V
Ordering Code: 2775W - 11.059000M - NSA5313A