

# 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. Dimensions and weight: 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 +7.0 V  
Storage temperature range -55 to +125 °C

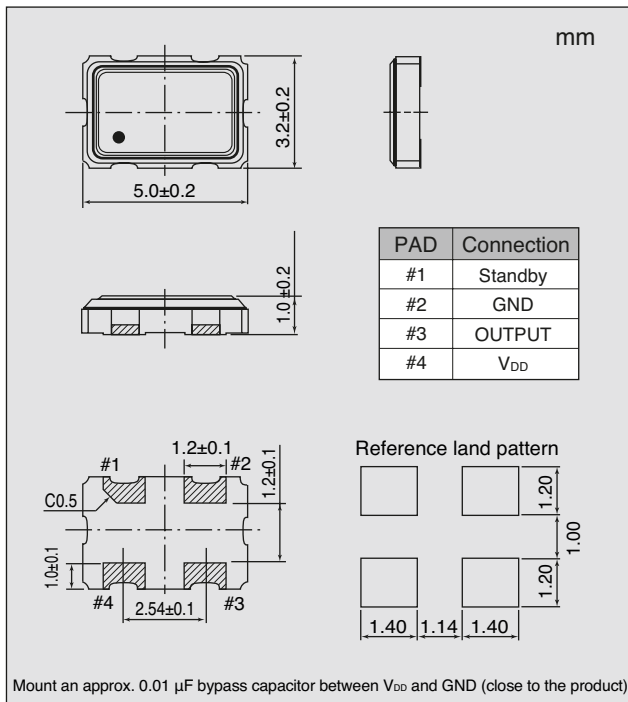


### Specifications

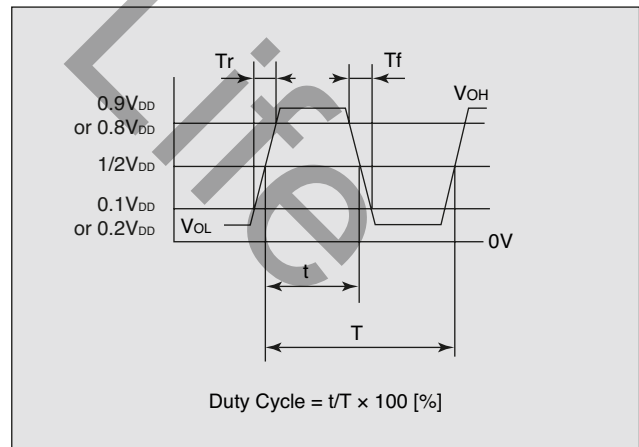
Item	Model	2775W		
Output level		C-MOS		
Frequency range <sup>*1</sup>	(MHz)	$1 \leq F \leq 40$	$40 < F \leq 70$	$70 < F \leq 125$
Operating temperature range <sup>*2</sup>	(°C)	-20 to +70		
Frequency stability	( $\times 10^{-6}$ )	$\pm 100$		
Power supply voltage [ $V_{DD}$ ]	(V)	+5.0 $\pm$ 0.5		
Current consumption (+5.0 V, 25 °C) max	During operation	25	40	50
	During standby		50	
$V_{OL}$ max/ $V_{OH}$ min	(V)	0.1 $V_{DD}$ /0.9 $V_{DD}$		
$T_r$ 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