Crystal Clock Oscillator



2775 Series

Programmable Type

■ Model name

2775Y Frequency stability of ±100 x 10⁻⁶.

■ Application

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

- PLL technology allows this crystal oscillator to support 1 to 181 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

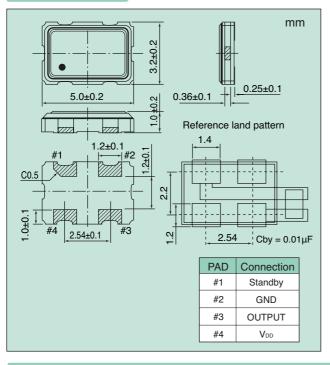
> Absolute maximum rating Power supply voltage (VDD) -0.5 to +7.0V DC Storage temperature range -55 to +125°C

■ Specifications

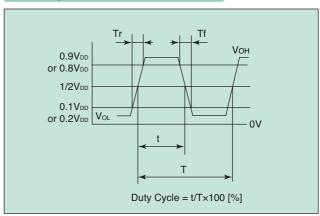
ltem Model		2775Y				
Output level			C-MOS			
Frequency range *1		(MHz)	1 ≤ F ≤ 40	40 < F ≤ 70	70 < F ≤ 125	125 < F ≤ 181
Operating temperature range *2		(°C)	-20 to +70			
Frequency stability		(×10 ⁻⁶)	±100			
Power supply voltage		(V)	+3.3±0.3			
Consumption current	During operation	(mA)	15	22	30	
(+3.3V,25°C) max	During standby	(μΑ)	30			
V _{OL} max/V _{OH} min		(V)	$0.1V_{DD}/0.9V_{DD}$ $0.2V_{DD}/0.8V_{DD}$			
			I _{OL} =4mA I _{OH} =-4mA			
Tr max/Tf max		(ns)	5/5 (0.1V _{DD} to 0.9V _{DD})		$3/3$ (0.2 V_{DD} to 0.8 V_{DD})	
Duty Cycle min. to max.		(%)	45 to 55 (at 1/2V _{DD})		40 to 60 (at 1/2V _{DD})	
Load (CL) max		(pF)	15			10
Oscillation start time max		(ms)	10			
Standby function			Available (tristate)			
Number for specifying an order			NSA5312A			

^{*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 Output	
Level H (0.7 VDD ≤ V IH ≤ VDD) or OPEN is selected.	Oscillation output ON	
Level L (+0.2 Vpp 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

Example 1: When ordering a product with model name: 2775Y, frequency: 68 MHz, frequency stability: $\pm 100 \times 10^{-6}$, and power supply voltage: 3.3 V Ordering Code: 2775Y – 68.000000M – NSA5312A

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/).