

Crystal Clock Oscillator

2785 Series

Programmable Type

Model name

2785V 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

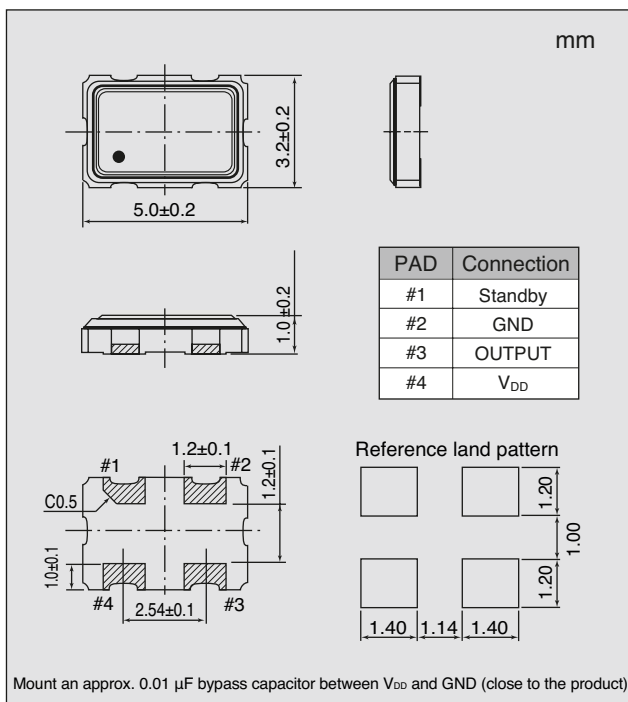


Specifications

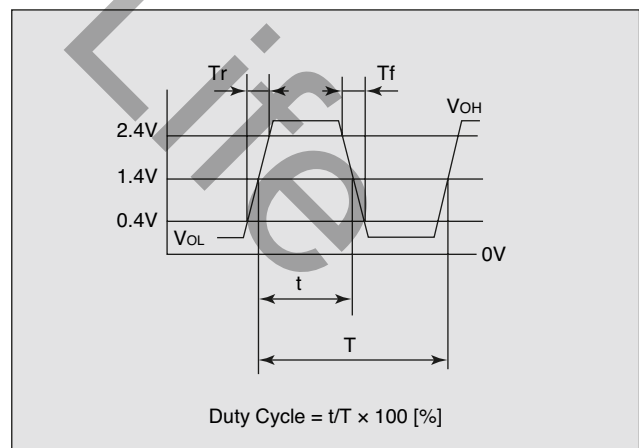
Item	Model	2785V		
Output level		TTL		
Frequency range ¹	(MHz)	$1 \leq F \leq 40$	$40 < F \leq 70$	$70 < F \leq 125$
Operating temperature range ²	(°C)	-20 to +70		
Frequency stability	($\times 10^{-6}$)	± 100		
Power supply voltage [V_{DD}]	(V)	+5.0 \pm 0.5		
Current consumption (+5.0 V, 25 °C) max	During operation	25	40	50
	During standby		50	
V_{OL} max/ V_{OH} min	(V)	0.4 V/2.4 V		
T_r max/ T_f max	(ns)	2.5/2.5 (0.4 V to 2.4 V)		
Duty Cycle min. to max.	(%)	40 to 60 (at 1.4 V)		
Load (C_L) max	TTL GATE	5		
Oscillation start time max	(ms)	10		
Standby function		Available (tristate)		
Number for specifying an order		NSA5314A		

*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 <TTL>



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]

Example 1: When ordering a product with model name: 2785V, frequency: 80 MHz, frequency stability: $\pm 100 \times 10^{-6}$, and power supply voltage: 5.0 V
Ordering Code: 2785V - 80.000000M - NSA5314A

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/>).