

2765E Series

EMI Noise-reducing Type

Model name

2765E Frequency stability of $\pm 100 \times 10^{-6}$.

■ Application

- For compact mobile information equipment, such as PDA and notebook PC

■ Features

- With a spread spectrum function installed, this crystal oscillator effectively reduces EMI noise.
- With a standby function installed, power consumption is reduced.



RoHS Compliant
Directive 2002/95/EC

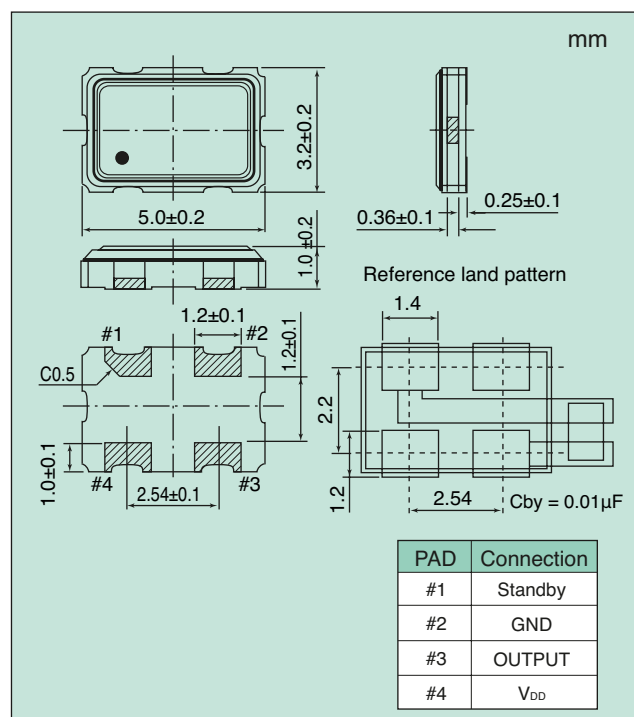
Absolute maximum rating
Power supply voltage (V_{DD}) -0.5 to +4.0V DC
Storage temperature range -55 to +125°C

■ Specifications

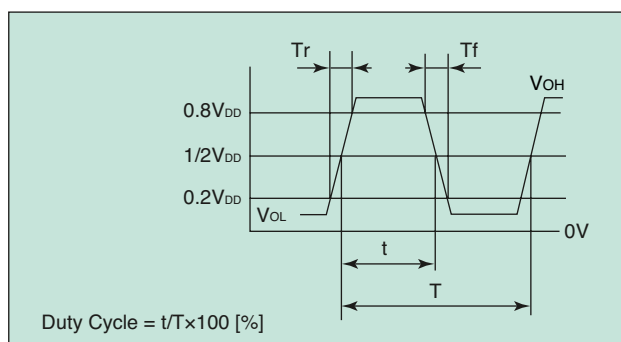
Item		Model	2765E
Output level			C-MOS
Frequency range ^{*1}	(MHz)		$40 \leq F \leq 80$
Operating temperature range ^{*2}	(°C)		-20 to +70
Frequency stability	($\times 10^{-6}$)		± 100
Power supply voltage	(V)		+3.3 $\pm$ 0.3
Consumption current	During operation	(mA)	30
(+3.3V, 25°C) max	During standby	(μ A)	30
V _{OL} max/V _{OH} min		(V)	0.2V _{DD} /0.8V _{DD} I _{OL} =4mA I _{OH} =-4mA
Tr max/Tf max		(ns)	5/5 (0.2V _{DD} to 0.8V _{DD})
Duty Cycle min. to max.		(%)	40 to 60 (at 1/2V _{DD})
Load (C _L) max		(pF)	15
Oscillation start time max		(ms)	10
Standby function			Available (tristate)
Number for specifying an order			NSA3393A

*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>



■ Spread Spectrum Characteristics

Spreading Type	Spreading Ratio
Center spreading	±1.0%

■ Standby Function

#1 Input	#3 Output
Level H ($0.7 V_{DD} \leq V_{IH} \leq V_{DD}$) or OPEN is selected.	Oscillation output ON
Level L ($V_{IL} \leq 0.3 V_{DD}$) is selected.	High impedance

■ 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
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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: 2765E, frequency: 40 MHz, frequency stability: $\pm 100 \times 10^{-6}$, and power supply voltage: 3.3 V
Ordering Code: 2765E – 40.000000M – NSA3393A