Crystal Clock Oscillator



2765E Series

EMI Noise-reducing Type

■ Model name

2765E Frequency stability of ±100 x 10⁻⁶.

■ Application

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

■ Specifications

- With a spread spectrum function installed, this crystal oscillator effectively reduces EMI noise.
- Down-spreading and center-spreading.
- With a standby function installed, power consump





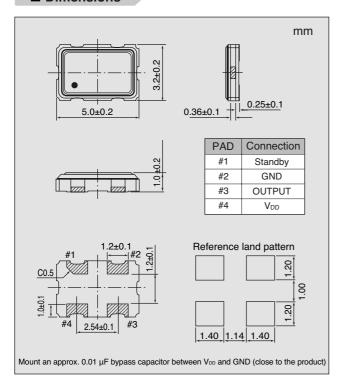
Absolute maximum rating Power supply voltage (VDD) -0.5 to +4.0 V Storage temperature range -55 to +125 °C

	Free
tion is reduced.	RoHS Compliant Directive 2002/95/EC

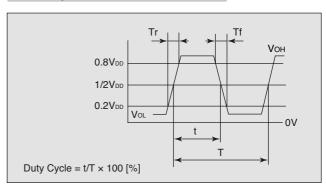
Item	Model	2765E
Output level		C-MOS
Frequency range *1	(MHz)	40 ≤ F ≤ 80
Operating temperature range *2	(°C)	−20 to +70
Frequency stability	(×10 ⁻⁶)	±100
Power supply voltage [V _{DD}]	(V)	+3.3±0.3
Current consumption During operation	(mA)	30
(+3.3 V, 25 °C) max During standby	(µA)	30
Vol max/Voн min	(V)	0.2 V _{DD} /0.8 V _{DD}
Tr max/Tf max	(ns)	5/5 (0.2 V _{DD} to 0.8 V _{DD})
Duty Cycle min. to max.	(%)	40 to 60 (at 1/2 V _{DD})
Load (C∟) 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} ≤ V _{IH} ≤ V _{DD}) or OPEN is selected.	Oscillation output ON
Level L (V _{IL} ≤ 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:

Example 1: When ordering a product with model name: 2765E, frequency: 40 MHz, frequency stability: ± 100 x $10^{-6},$ and power supply voltage: 3.3 V Ordering Code: 2765E - 40.000000M - NSA3393A 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/).