



**THE DATASHEET OF
2765E-80.000000MHZ**



Model name

2765E Overall frequency tolerance 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.
- Down-spreading and center-spreading.
- With a standby function installed, power consumption is reduced.

Pb Free

RoHS Compliant
Directive 2011/65/EU



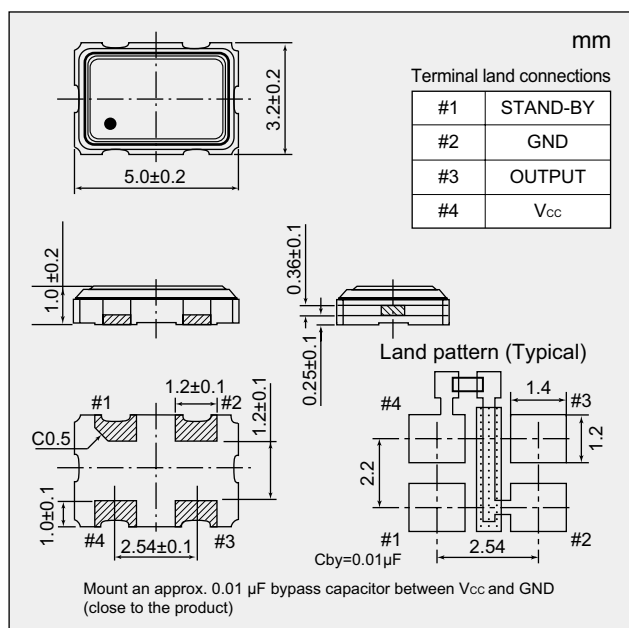
Absolute maximum rating
Supply voltage (V_{CC}) -0.5 to +7.0 V
Storage temperature range -55 to +125 °C

Specifications

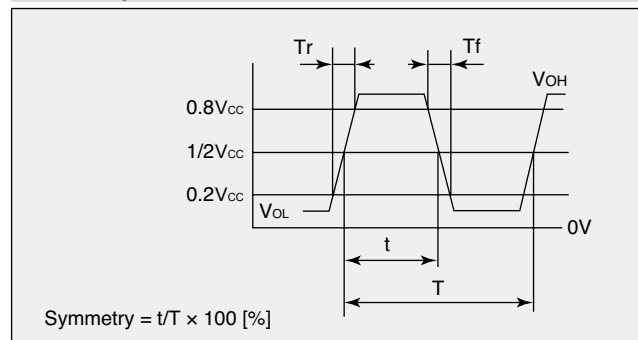
Item	Model	2765E
Output level		CMOS
Nominal frequency range *1	(MHz)	$20 \leq F \leq 80$
Operating temperature range *2	(°C)	-20 to +70
Overall frequency tolerance	($\times 10^{-6}$)	± 100
Supply voltage [V_{CC}]	(V)	$+3.3 \pm 0.3$
Current consumption (+3.3 V, 25 °C) max	During operation	(mA) 30
	During standby	(μ A) 30
V_{OL} max/ V_{OH} min	(V)	$0.2 V_{CC}/0.8 V_{CC}$
Tr max/Tf max	(ns)	5/5 ($0.2 V_{CC}$ to $0.8 V_{CC}$)
Symmetry min. to max.	(%)	40 to 60 (at $1/2 V_{CC}$)
Load (C_L) max	(pF)	15
Start-up time max	(ms)	10
Standby function		Available (Three-state)
Number for specifying an order		NSA3393B

*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 <CMOS>



Spread Spectrum Characteristics

Spreading Type	Spreading Ratio
Center spreading	± 2.0 %

Standby Function

#1 Input	#3 Output
Level H ($0.7 V_{CC} \leq V_{IH} \leq V_{CC}$) or OPEN is selected.	Oscillation output ON
Level L ($V_{IL} \leq 0.3 V_{CC}$) 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 : When ordering a product with model name: 2765E, frequency: 20 MHz, overall frequency tolerance: $\pm 100 \times 10^{-6}$, and supply voltage: 3.3 V
 Ordering Code: 2765E - 20.000000M - NSA3393B

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/>).

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View 2765E-80.000000MHZ on WIN SOURCE](#)
-  [NDK Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

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-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management