

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

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



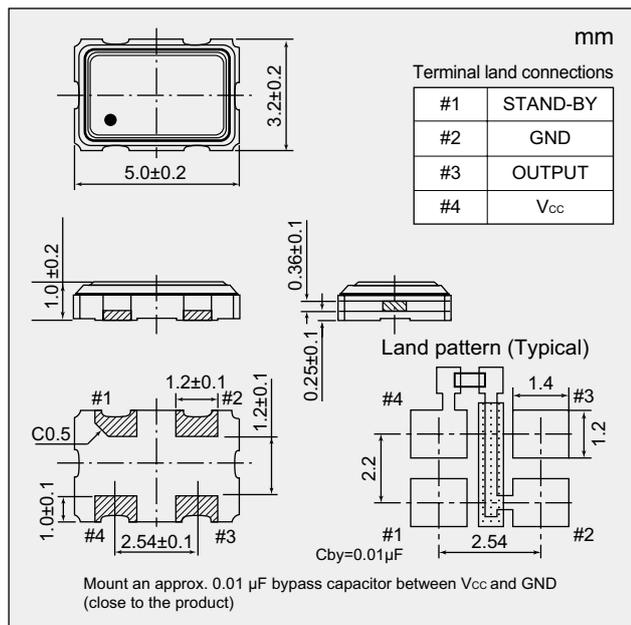
Absolute maximum rating
Supply voltage (V_{CC}) -0.5 to +7.0 V
Storage temperature range -55 to +125 °C

Specifications

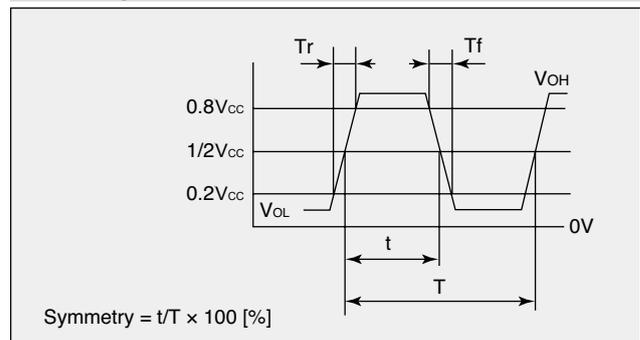
Item	Model	2765E
Output level		CMOS
Nominal frequency range *1	(MHz)	$20 \leq F \leq 80$
Operating temperature range *2	(°C)	-20 to +70
Overall frequency tolerance	($\times 10^{-6}$)	± 100
Supply voltage [V_{CC}]	(V)	$+3.3 \pm 0.3$
Current consumption (+3.3 V, 25 °C) max	During operation	(mA) 30
	During 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
 Model name - [Frequency (up to 9 digits)] M - [Number for specifying an order]
 Ordering Code: 2765E - 20.000000M - NSA3393B

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/>).