

## 2725 Series

## Wide Operating Temperature Range Type

### Model name

2725T Overall frequency tolerance of  $\pm 100 \times 10^{-6}$   
(Wide Operating Temperature Range Type).

### Application

- For notebook PC, mobile information terminal, and PC card

### Features

- Supports a wide temperature range from  $-40$  to  $+85$  °C.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- Lead-free.
- Compact and light. Dimensions : 5.0 x 3.2 x 1.0 mm, weight : 0.06 g.

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

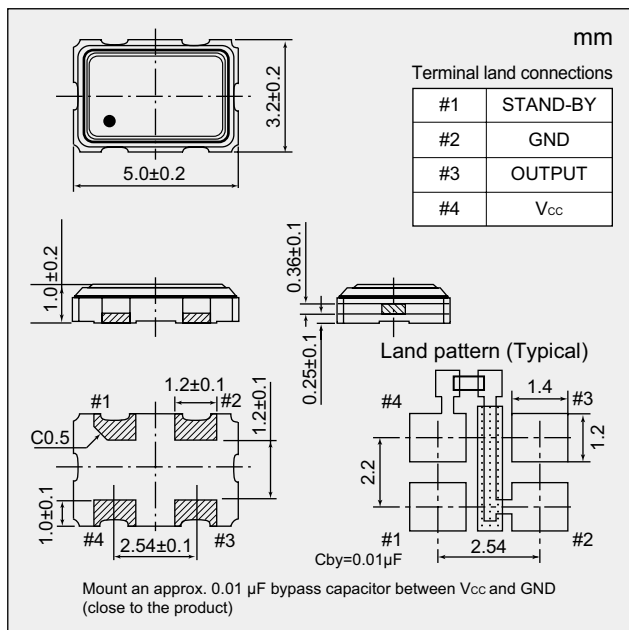


### Specifications

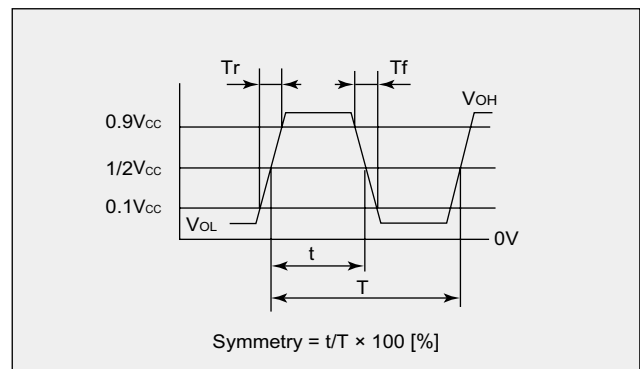
Item		Model	2725T			
Output level			CMOS			
Nominal frequency range *1	(MHz)		$2.5 \leq F < 20$	$20 \leq F < 40$	$40 \leq F < 60$	$60 \leq F < 75$
Operating temperature range *2	(°C)		-40 to +85			
Overall frequency tolerance	( $\times 10^{-6}$ )		$\pm 100$			
Supply voltage [ $V_{CC}$ ]	(V)		+3.3 $\pm$ 0.1			
Current consumption (+3.3 V, 25 °C) max	During operation	(mA)	8	15	22	25
	During standby	( $\mu$ A)	10			
$V_{OL}$ max/ $V_{OH}$ min	(V)		0.1 $V_{CC}$ /0.9 $V_{CC}$			
$T_r$ max/ $T_f$ max	(ns)		5/5 (0.1 $V_{CC}$ to 0.9 $V_{CC}$ )			
Symmetry min. to max.	(%)		45 to 55 (at 1/2 $V_{CC}$ )			
Load ( $C_L$ ) max	(pF)		15			
Start-up time max	(ms)		4		10	
Standby function			Available (Three-state)			
Number for specifying an order			NSA6293D			

\*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>



### 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: 2725T, frequency: 20 MHz, overall frequency tolerance:  $\pm 100 \times 10^{-6}$ , and supply voltage: 3.3 V  
Ordering Code: 2725T - 20.000000M - NSA6293D

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/>).