

## 2725N Series

### Model name

2725N Overall frequency tolerance of  $\pm 100 \times 10^{-6}$ .

### Application

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

### Features

- CMOS IC is directly driven.
- Product height : 1.0 mm. This is equivalent to height of slim IC package (TSSOP, TVSOP).
- Current consumption during standby is 15  $\mu$ A or less. (Max. 40MHz)
- Automatic mounting by taping and IR reflow (lead-free) are possible.

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

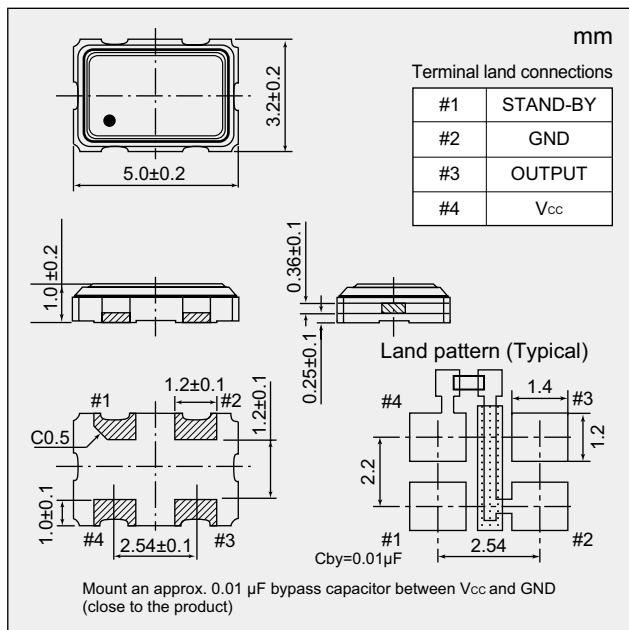
### Specifications

Item		Model	2725N			
Output level			CMOS			
Nominal frequency range <sup>*1</sup>		(MHz)	$2.5 \leq F < 20$	$20 \leq F \leq 40$	$40 < F < 60$	$60 \leq F \leq 70$
Operating temperature range <sup>*2</sup>		(°C)	-20 to +70			
Overall frequency tolerance		( $\times 10^{-6}$ )	$\pm 100$			
Supply voltage [ $V_{CC}$ ]		(V)	$+5 \pm 10\%$			
Current consumption (+5 V, 25 °C) max	During operation	(mA)	Max. 15	Max. 25	Max. 40	Max. 45
	During standby	( $\mu$ A)	Max. 15 $\mu$		Max. 25m	
$V_{OL}$ 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.		(%)	40 to 60 (at $1/2 V_{CC}$ )		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			NSA6294A			

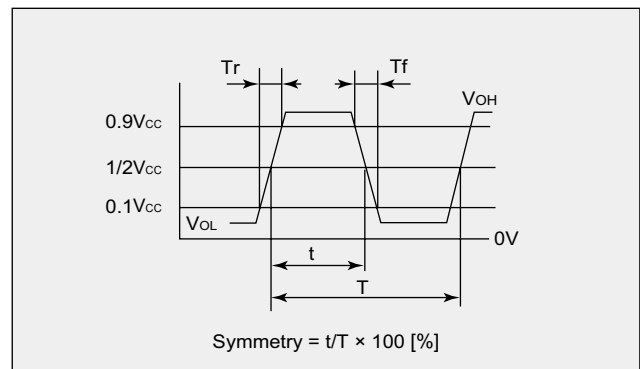
The values of current consumption,  $T_r/T_f$ , symmetry show the standard values at  $C_L=15pF$ .

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 ( $3.5 V \leq V_{IH} \leq V_{CC}$ ) or OPEN is selected.	Oscillation output ON
L level ( $V_{IL} \leq 0.8 V$ ) 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: 2725N, frequency: 40 MHz, overall frequency tolerance:  $\pm 100 \times 10^{-6}$ , and supply voltage: 5 V  
Ordering Code: 2725N - 40.000000M - NSA6294A

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/>).