

## 2725 Series

## Power-saving Type

### Model name

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

### Application

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

### Features

- A power saving-type crystal oscillator, capable of being driven by a 2.5 V power supply.
- 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 ( $V_{DD}$ ) -0.5 to +7.0 V  
Storage temperature range -55 to +125 °C

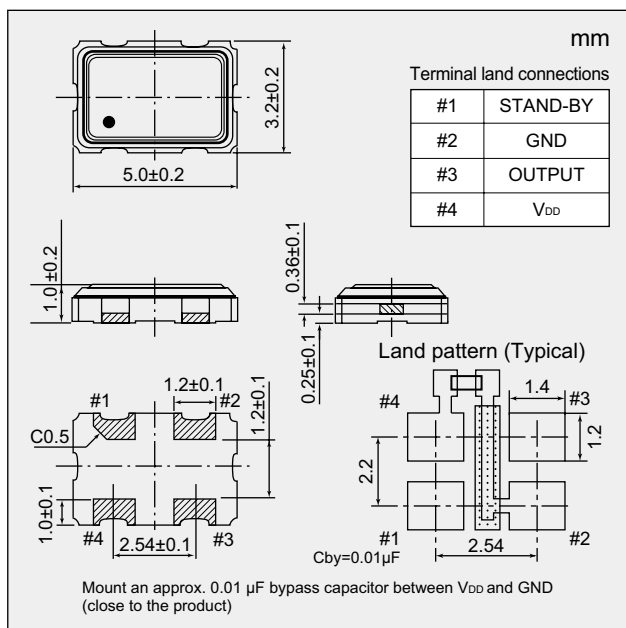


### Specifications

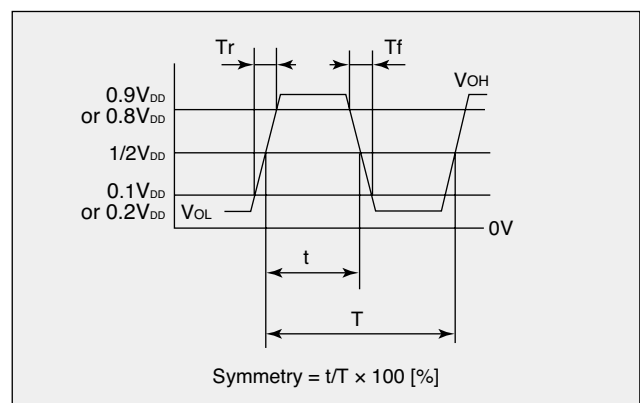
Item		Model	2725Q							
Output level			CMOS							
Nominal frequency range *1	(MHz)		$2.5 \leq F < 5$	$5 \leq F < 10$	$10 \leq F < 20$	$20 \leq F < 40$	$40 \leq F < 75$	$75 \leq F \leq 125$		
Operating temperature range *2	(°C)		-20 to +70							
Overall frequency tolerance	( $\times 10^{-6}$ )		$\pm 100$							
Supply voltage [ $V_{DD}$ ]	(V)		$+2.5 \pm 0.1$							
Current consumption (+2.5 V, 25 °C) max	During operation	(mA)	2	3	4	6	16	24		
	During standby	( $\mu$ A)	10							
$V_{OL}$ max/ $V_{OH}$ min	(V)		$0.1 V_{DD}/0.9 V_{DD}$							$0.2 V_{DD}/0.8 V_{DD}$
$T_r$ max/ $T_f$ max	(ns)		$5/5 (0.1V_{DD} \text{ to } 0.9V_{DD})$							$4/4 (0.2 V_{DD} \text{ to } 0.8 V_{DD})$
Symmetry min. to max.	(%)		40 to 60 (at $1/2 V_{DD}$ )							
Load ( $C_L$ ) max	(pF)		15							
Start-up time max	(ms)		4				10			
Standby function			Available (tristate)							
Number for specifying an order			NSA6296A							

\*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 ( $0.7 V_{DD} \leq V_{IH} \leq V_{DD}$ ) or OPEN is selected.	Oscillation output ON
Level L ( $V_{IL} \leq 0.3 V_{DD}$ ) 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 :When ordering a product with model name: 2725Q, frequency: 125 MHz, overall frequency tolerance:  $\pm 100 \times 10^{-6}$ , and supply voltage: 2.5 V  
Ordering Code: 2725Q - 125.000000M - NSA6296A

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/>).