

## 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 ( $V_{CC}$ ) -0.5 to +7.0 V  
Storage temperature range -55 to +125 °C

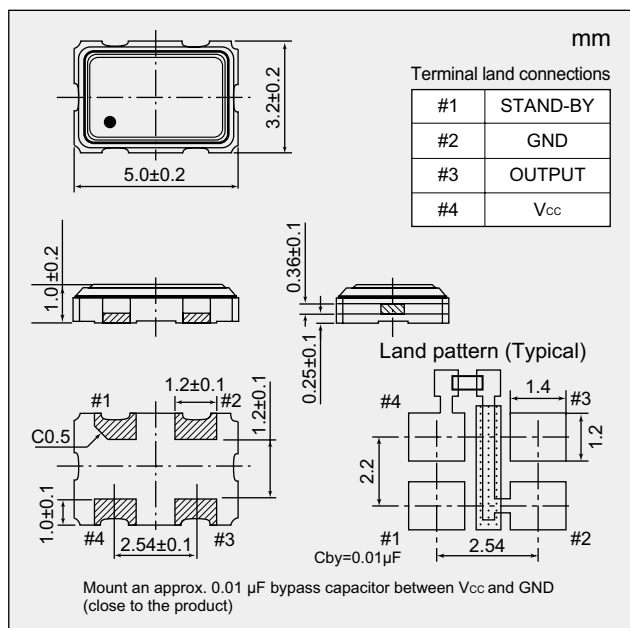


### Specifications

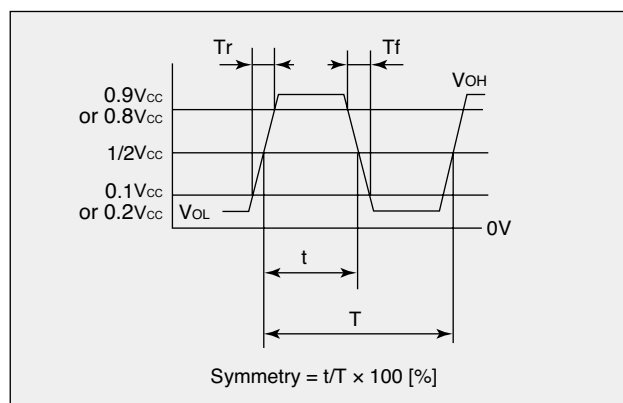
Item		Model	2725Q						
Output level			CMOS						
Nominal frequency range <sup>*1</sup>		(MHz)	2.5 ≤ F < 5	5 ≤ F < 10	10 ≤ F < 20	20 ≤ F < 40	40 ≤ F < 75	75 ≤ F ≤ 125	
Operating temperature range <sup>*2</sup>		(°C)	-20 to +70						
Overall frequency tolerance		(×10 <sup>-6</sup> )	±100						
Supply voltage [V <sub>CC</sub> ]		(V)	+2.5±0.1						
Current consumption (+2.5 V, 25 °C) max	During operation	(mA)	2	3	4	6	16	24	
	During standby	(μA)	10						
V <sub>OL</sub> max/V <sub>OH</sub> min		(V)	0.1 V <sub>CC</sub> /0.9 V <sub>CC</sub>						
Tr max/Tf max		(ns)	5/5 (0.1V <sub>CC</sub> to 0.9V <sub>CC</sub> )						
Symmetry min. to max.		(%)	40 to 60 (at 1/2 V <sub>CC</sub> )						
Load (C <sub>L</sub> ) max		(pF)	15						
Start-up time max		(ms)	4					10	
Standby function			Available (Three-state)						
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 ( $0.7 V_{CC} \leq V_{IH} \leq V_{CC}$ ) 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: 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/>).