

# Crystal Clock Oscillator

## 2725 Series High Frequency-supporting Type

### Model name

2725T Frequency stability of  $\pm 100 \times 10^{-6}$ .

### Application

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

### Features

- Supports a frequency range of 2.5 to 125 MHz.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- Lead-free.
- Compact and light. Dimensions and weight: 5.0 x 3.2 mm, 1.0 mm, and 0.06 g.

Pb  
Free

RoHS Compliant  
Directive 2002/95/EC



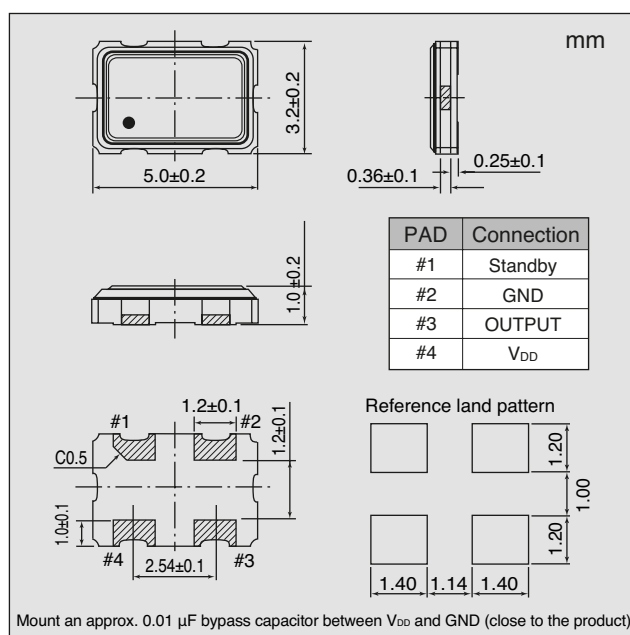
Absolute maximum rating  
Power supply voltage ( $V_{DD}$ ) -0.5 to +7.0 V  
Storage temperature range -55 to +125 °C

### Specifications

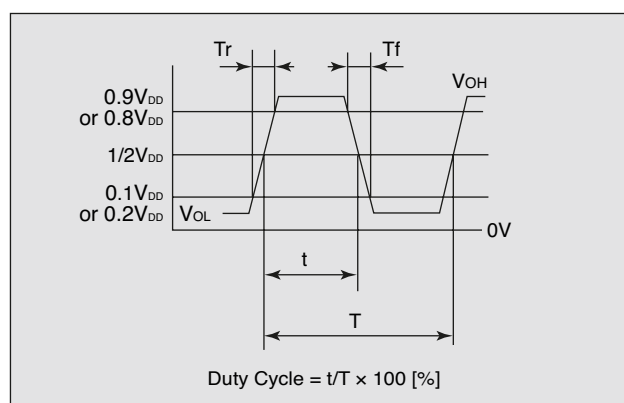
Item		Model	2725T					
Output level			C-MOS					
Frequency range <sup>*1</sup>	(MHz)		2.5 ≤ F < 20	20 ≤ F < 40	40 ≤ F < 60	60 ≤ F < 75	75 ≤ F < 100	100 ≤ F ≤ 125
Operating temperature range <sup>*2</sup>	(°C)		-20 to +70					
Frequency stability	(×10 <sup>-6</sup> )		±100					
Power supply voltage [V <sub>DD</sub> ]	(V)		+3.3±0.3					
Current consumption	During operation	(mA)	8	15	22	25	35	40
(+3.3 V, 25 °C) max	During standby	(μA)	10					
V <sub>OL</sub> max/V <sub>OH</sub> min		(V)	0.1 V <sub>DD</sub> /0.9 V <sub>DD</sub>					0.2 V <sub>DD</sub> /0.8 V <sub>DD</sub>
Tr max/Tf max		(ns)	5/5 (0.1 V <sub>DD</sub> to 0.9 V <sub>DD</sub> )					3/3 (0.2 V <sub>DD</sub> to 0.8 V <sub>DD</sub> )
Duty Cycle min. to max.		(%)	45 to 55 (at 1/2 V <sub>DD</sub> )					
Load (C <sub>L</sub> ) max		(pF)	15					
Oscillation start time max		(ms)	4		10			
Standby function			Available (tristate)					
Number for specifying an order			NSA6293A					

\*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 <C-MOS>



### 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:

Model name - Frequency (up to 9 digits) M - Number for specifying an order

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/>).

Example 1: When ordering a product with model name: 2725T, frequency: 125 MHz, frequency stability:  $\pm 100 \times 10^{-6}$ , and power supply voltage: 3.3 V  
Ordering Code: 2725T - 125.000000M - NSA6293A