

## 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



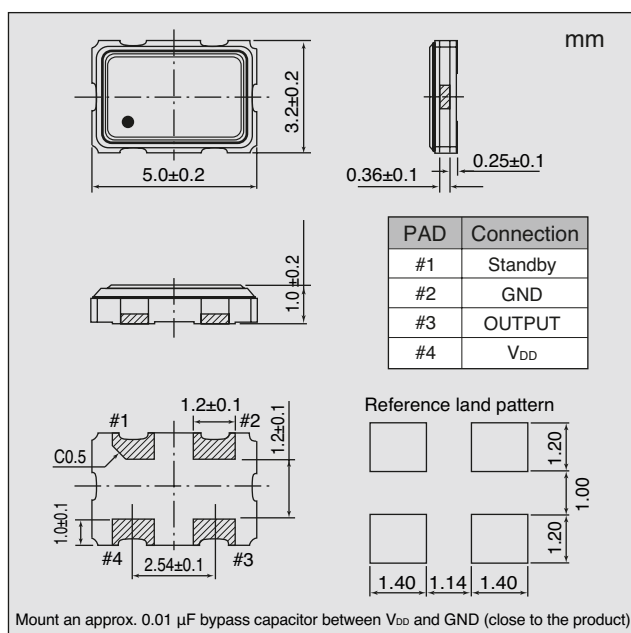
Absolute maximum rating  
Power supply voltage ( $V_{DD}$ ) -0.5 to +7.0 V  
Storage temperature range -55 to +125 °C

### Specifications

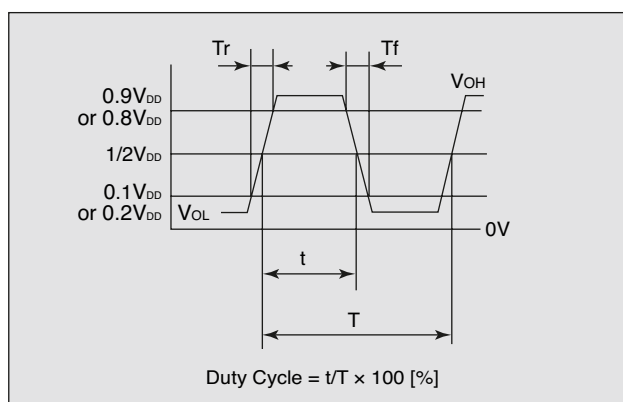
| Item                                      |                      | Model | 2725T                                             |             |             |             |                                                   |               |
|-------------------------------------------|----------------------|-------|---------------------------------------------------|-------------|-------------|-------------|---------------------------------------------------|---------------|
| 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 ( $0.7 V_{DD} \leq V_{IH} \leq V_{DD}$ )<br>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