

Crystal Clock Oscillator

2725 Series High Frequency-supporting Type

Model name

2725T Frequency stability of $\pm 50 \times 10^{-6}$.

Application

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

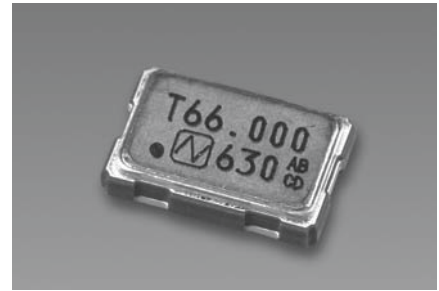
Features

- 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

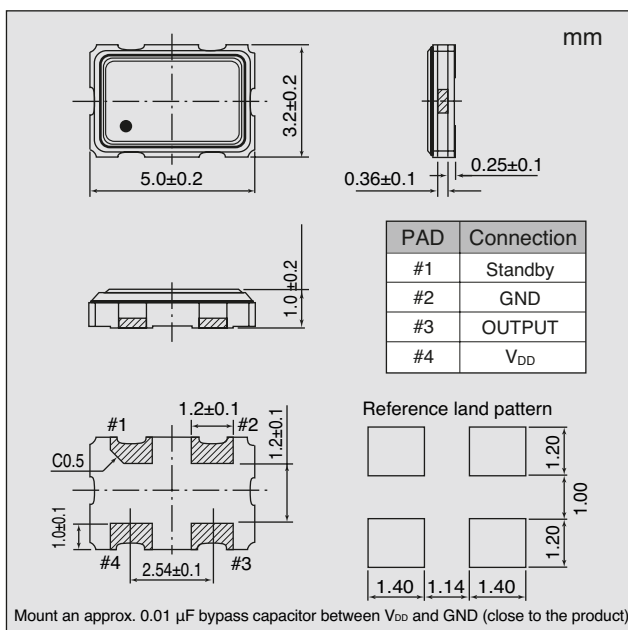


Specifications

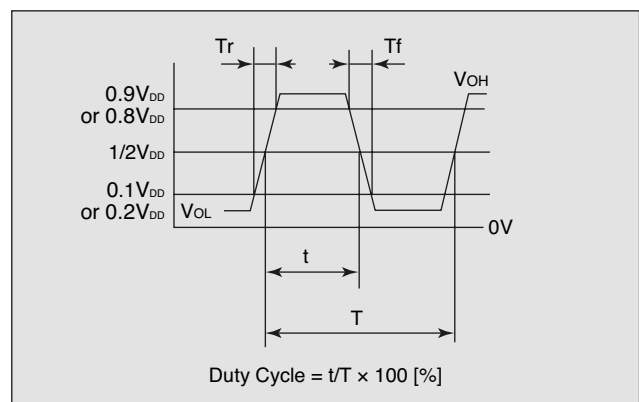
Item		Model	2725T					
Output level			C-MOS					
Frequency range ^{*1}	(MHz)		$2.5 \leq F < 20$	$20 \leq F < 40$	$40 \leq F < 60$	$60 \leq F < 75$	$75 \leq F < 100$	$100 \leq F \leq 125$
Operating temperature range ^{*2}	(°C)		-10 to +70					
Frequency stability	($\times 10^{-6}$)		± 50					
Power supply voltage [V_{DD}]	(V)		$+3.3 \pm 0.3$					
Current consumption (+3.3 V, 25 °C) max	During operation	(mA)	8	15	22	25	35	40
	During standby	(μ A)	10					
V_{OL} max/ V_{OH} min	(V)		$0.1 V_{DD}/0.9 V_{DD}$				$0.2 V_{DD}/0.8 V_{DD}$	
Tr max/Tf max	(ns)		$5/5 (0.1 V_{DD} \text{ to } 0.9 V_{DD})$				$3/3 (0.2 V_{DD} \text{ to } 0.8 V_{DD})$	
Duty Cycle min. to max.	(%)		45 to 55 (at $1/2 V_{DD}$)					
Load (C_L) max	(pF)		15					
Oscillation start time max	(ms)		4			10		
Standby function			Available (tristate)					
Number for specifying an order			NSA6293B					

*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: $\pm 50 \times 10^{-6}$, and power supply voltage: 3.3 V
Ordering Code: 2725T - 125.000000M - NSA6293B