

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

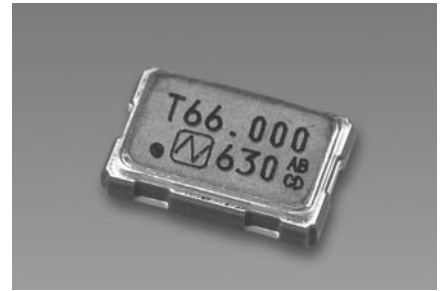
Features

- 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 with the following dimensions and weight of 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 +7.0V DC
Storage temperature range -55 to +125°C

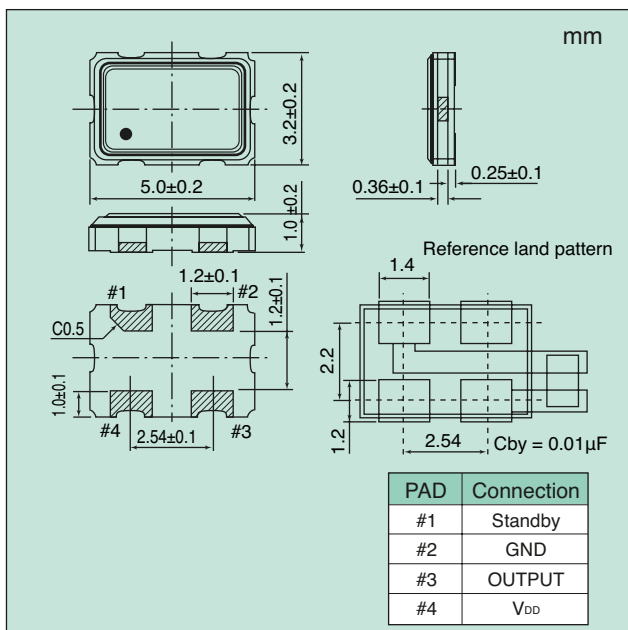


Specifications

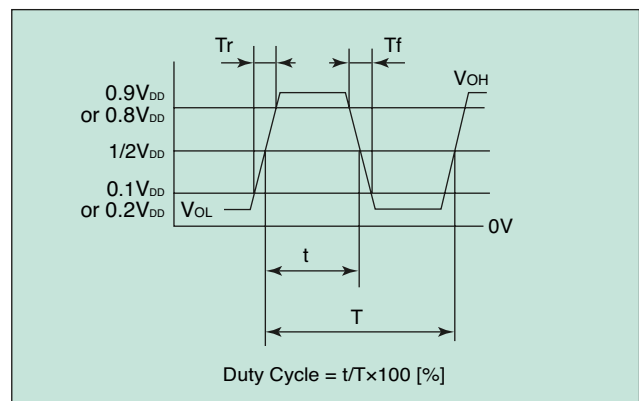
Item	Model	2725T						
Output level		C-MOS						
Frequency range ¹	(MHz)	2.5 ≤ F < 20	20 ≤ F < 40	40 ≤ F < 60	60 ≤ F < 75	75 ≤ F < 100	100 ≤ F ≤ 125	
Operating temperature range ²	(°C)	-20 to +70						
Frequency stability	($\times 10^{-6}$)	±100						
Power supply voltage	(V)	+3.3±0.3						
Consumption current	During operation	(mA)	8	15	22	25	35	40
	During standby	(μ A)	10					
V_{OL} max/ V_{OH} min	(V)	0.1V _{DD} /0.9V _{DD} I _{OL} =4mA I _{OH} =-4mA				0.2V _{DD} /0.8V _{DD} I _{OL} =4mA I _{OH} =-4mA		
Tr max/Tf max	(ns)	5/5 (0.1V _{DD} to 0.9V _{DD})				3/3 (0.2V _{DD} to 0.8V _{DD})		
Duty Cycle min. to max.	(%)	45 to 55 (at 1/2V _{DD})						
Load (C _L) max	(pF)	15						
Oscillation start time max	(ms)	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