

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



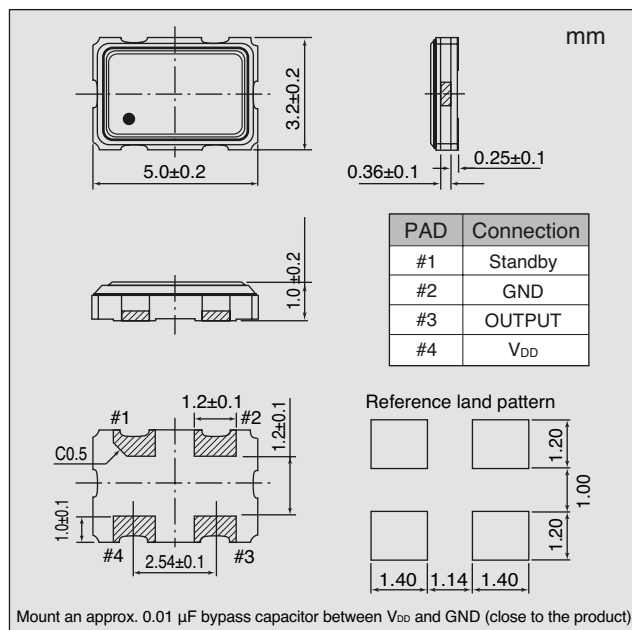
Absolute maximum rating
Power supply voltage (V_{DD}) -0.5 to +7.0 V
Storage temperature range -55 to +125 °C

Specifications

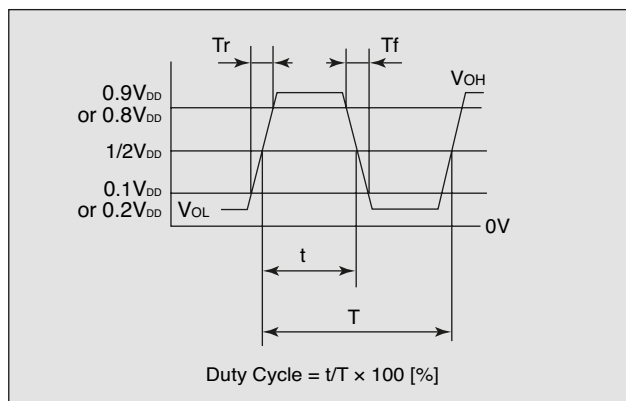
Item		Model	2725T					
Output level			C-MOS					
Frequency range ^{*1}		(MHz)	2.5 ≤ F < 20	20 ≤ F < 40	40 ≤ F < 60	60 ≤ F < 75	75 ≤ F < 100	100 ≤ F ≤ 125
Operating temperature range ^{*2}		(°C)	-20 to +70					
Frequency stability		(×10 ⁻⁶)	±100					
Power supply voltage [V _{DD}]		(V)	+3.3±0.3					
Current consumption (+3.3 V, 25 °C) max	During operation	(mA)	8	15	22	25	35	40
	During standby	(μA)	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} to 0.9 V _{DD})					3/3 (0.2 V _{DD} 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			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