

Crystal Clock Oscillator

2725 Series

Wide Operating Temperature Range Type

Model name

2725T Frequency stability of $\pm 50 \times 10^{-6}$ (Wide Operating Temperature Range Type)

Application

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

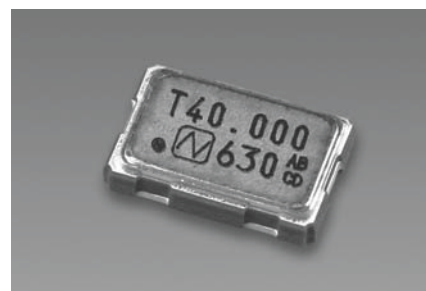
Features

- Supports a wide temperature range from -40 to $+85$ °C.
- 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

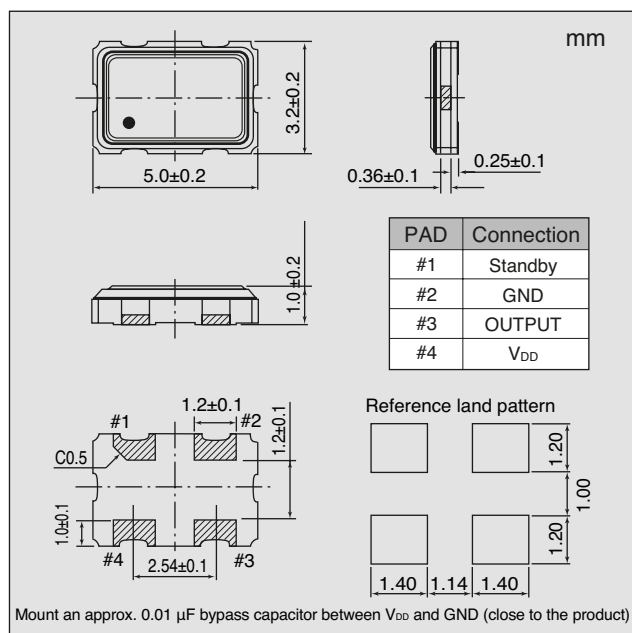


Specifications

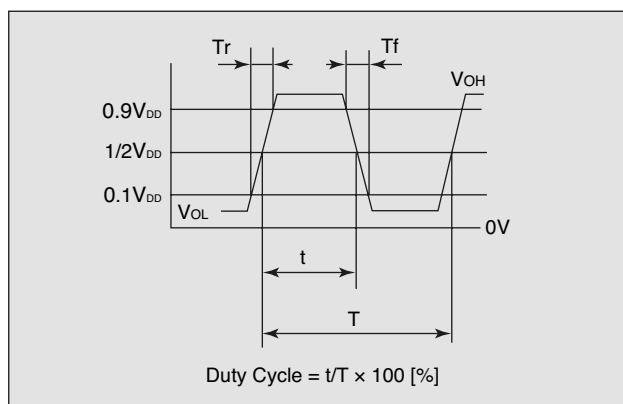
Item	Model	2725T			
Output level		C-MOS			
Frequency range ^{*1}	(MHz)	$2.5 \leq F < 20$	$20 \leq F < 40$	$40 \leq F < 60$	$60 \leq F \leq 75$
Operating temperature range ^{*2}	(°C)	-40 to $+85$			
Frequency stability	($\times 10^{-6}$)	± 50			
Power supply voltage [V_{DD}]	(V)	$+3.3 \pm 0.1$			
Current consumption					
During operation	(mA)	8	15	22	25
During standby	(μ A)	10			
V_{OL} max/ V_{OH} min	(V)	$0.1 V_{DD}/0.9 V_{DD}$			
T_r max/ T_f max	(ns)	$5/5$ ($0.1 V_{DD}$ to $0.9 V_{DD}$)			
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		NSA6293E			

*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: 20 MHz, frequency stability: $\pm 50 \times 10^{-6}$, and power supply voltage: 3.3 V
Ordering Code: 2725T - 20.000000M - NSA6293E