

2725 Series

Wide Operating Temperature Range Type

Model name

2725T Overall frequency tolerance 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 : 5.0 x 3.2 x 1.0 mm, weight : 0.06 g.

Pb
Free

RoHS Compliant
Directive 2011/65/EU

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

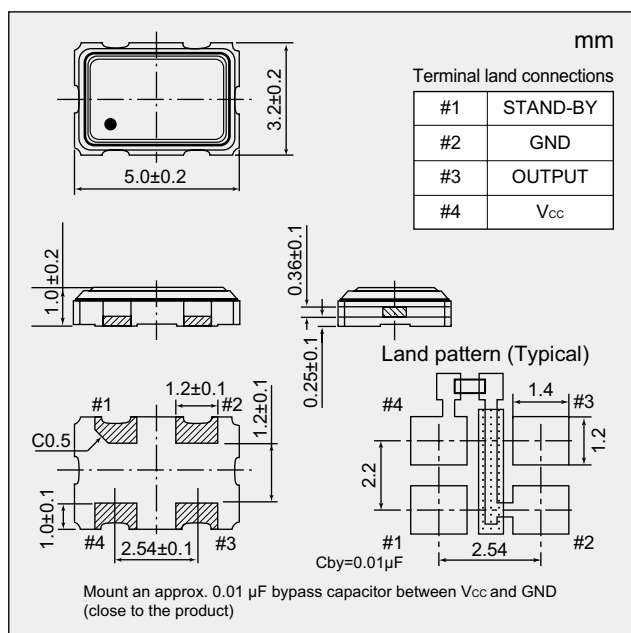


Specifications

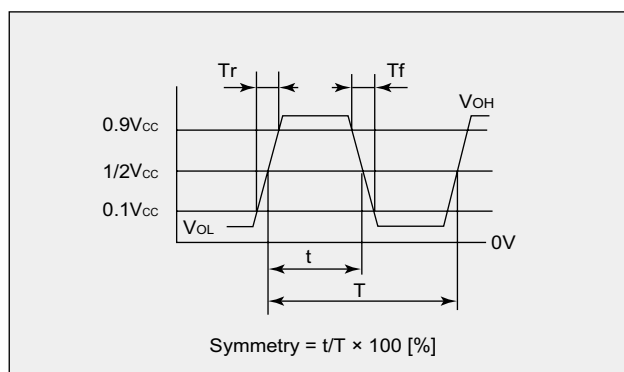
Item		Model	2725T			
Output level			CMOS			
Nominal frequency range ^{*1}		(MHz)	2.5 ≤ F < 20	20 ≤ F < 40	40 ≤ F < 60	60 ≤ F ≤ 75
Operating temperature range ^{*2}		(°C)	−40 to +85			
Overall frequency tolerance		(×10 ^{−6})	±50			
Supply voltage [V _{CC}]		(V)	+3.3±0.1			
Current consumption (+3.3 V, 25 °C) max	During operation	(mA)	8	15	22	25
	During standby	(μA)	10			
V _{OL} max/V _{OH} min		(V)	0.1 V _{CC} /0.9 V _{CC}			
Tr max/Tf max		(ns)	5/5 (0.1 V _{CC} to 0.9 V _{CC})			
Symmetry min. to max.		(%)	45 to 55 (at 1/2 V _{CC})			
Load (C _L) max		(pF)	15			
Start-up time max		(ms)	4		10	
Standby function			Available (Three-state)			
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 <CMOS>



Standby Function

#1 Input	#3 Output
Level H ($0.7 V_{CC} \leq V_{IH} \leq V_{CC}$) or OPEN is selected.	Oscillation output ON
Level L ($V_{IL} \leq 0.3 V_{CC}$) is selected.	High impedance

How to Specify an Order

When ordering our products, specify them with an "Ordering Code" that consists of the following: Example: When ordering a product with model name: 2725T, frequency: 20 MHz, overall frequency tolerance: $\pm 50 \times 10^{-6}$, and supply voltage: 3.3 V
Ordering Code: 2725T - 20.000000M - NSA6293E

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/>).