

2725 Series

Power-saving Type

Model name

2725Q Overall frequency tolerance of $\pm 100 \times 10^{-6}$.

Application

- For compact mobile information equipment, such as DVC, DSC, notebook PC, and PDA

Features

- A power saving-type crystal oscillator, capable of being driven by a 2.5 V power supply.
- 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

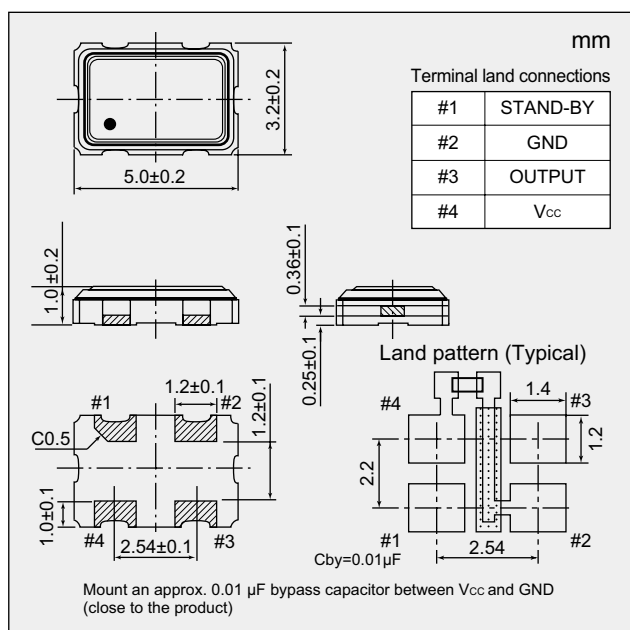


Specifications

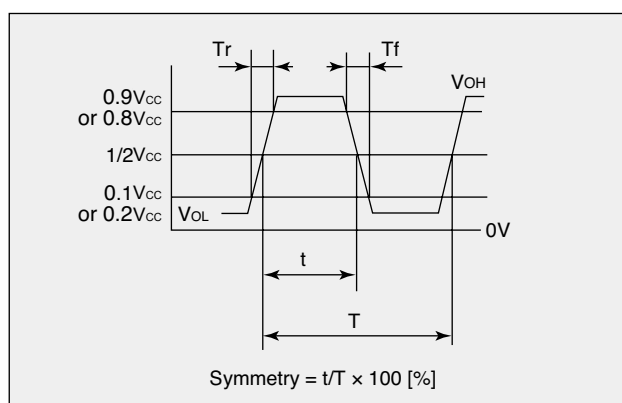
Item		Model	2725Q							
Output level			CMOS							
Nominal frequency range ^{*1}		(MHz)	2.5 ≤ F < 5	5 ≤ F < 10	10 ≤ F < 20	20 ≤ F < 40	40 ≤ F < 75	75 ≤ F ≤ 125		
Operating temperature range ^{*2}		(°C)	-20 to +70							
Overall frequency tolerance		(×10 ⁻⁶)	±100							
Supply voltage [V _{CC}]		(V)	+2.5±0.1							
Current consumption (+2.5 V, 25 °C) max	During operation	(mA)	2	3	4	6	16	24		
	During standby	(μA)	10							
V _{OL} max/V _{OH} min		(V)	0.1 V _{CC} /0.9 V _{CC}							0.2 V _{CC} /0.8 V _{CC}
Tr max/Tf max		(ns)	5/5 (0.1V _{CC} to 0.9V _{CC})							4/4 (0.2 V _{CC} to 0.8 V _{CC})
Symmetry min. to max.		(%)	40 to 60 (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			NSA6296A							

*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: 2725Q, frequency: 125 MHz, overall frequency tolerance: $\pm 100 \times 10^{-6}$, and supply voltage: 2.5 V
Ordering Code: 2725Q - 125.000000M - NSA6296A

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/>).