

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

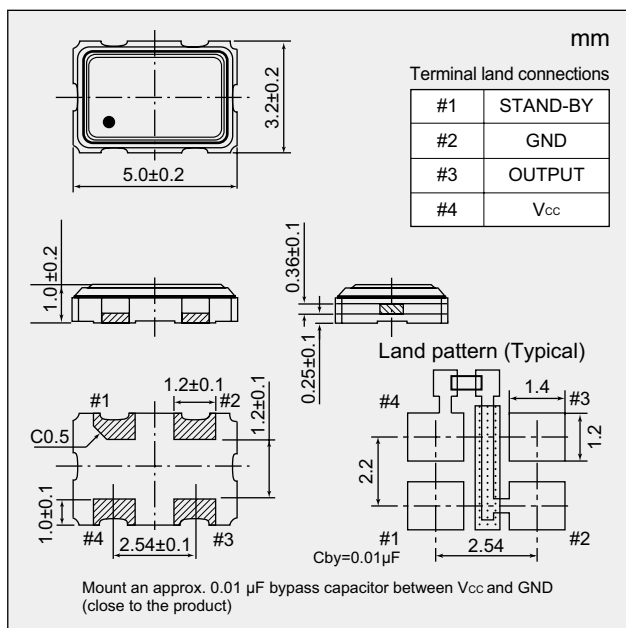


Specifications

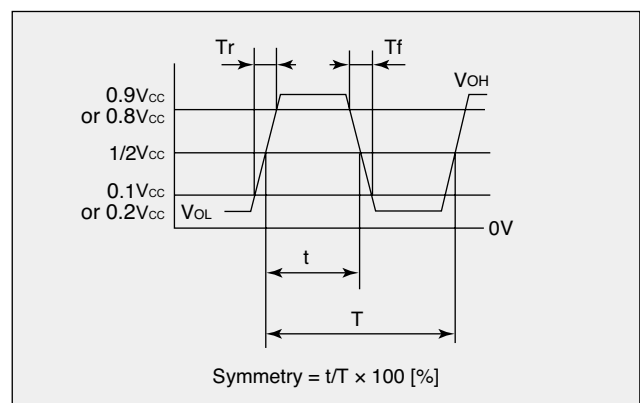
Item		Model	2725Q						
Output level			CMOS						
Nominal frequency range *1		(MHz)	$2.5 \leq F < 5$	$5 \leq F < 10$	$10 \leq F < 20$	$20 \leq F < 40$	$40 \leq F < 75$	$75 \leq F \leq 125$	
Operating temperature range *2		(°C)	-20 to +70						
Overall frequency tolerance		($\times 10^{-6}$)	± 100						
Supply voltage [V_{CC}]		(V)	$+2.5 \pm 0.1$						
Current consumption (+2.5 V, 25 °C) max	During operation	(mA)	2	3	4	6	16	24	
	During standby	(μ A)	10						
V_{OL} max/ V_{OH} min		(V)	$0.1 V_{CC}/0.9 V_{CC}$						$0.2 V_{CC}/0.8 V_{CC}$
T_r max/ T_f max		(ns)	$5/5 (0.1V_{CC} \text{ to } 0.9V_{CC})$						$4/4 (0.2 V_{CC} \text{ to } 0.8 V_{CC})$
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/>).