Crystal Clock Oscillator

NDK Crystal Bridge to the Future

2725 Series

Power-saving Type

■ Model name

2725Q Overall frequency tolerance of ±100 x 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

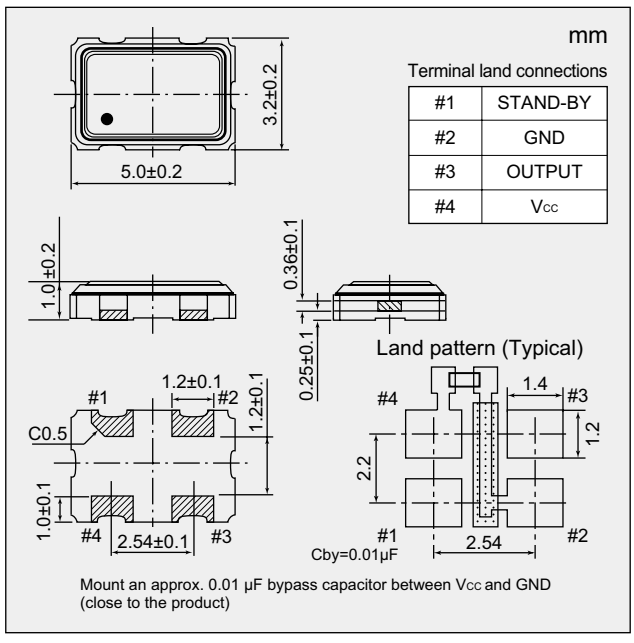
Absolute maximum rating
Supply voltage (V_{CC}) -0.5 to +7.0 V
Storage temperature range -55 to +125 °C

■ Specifications

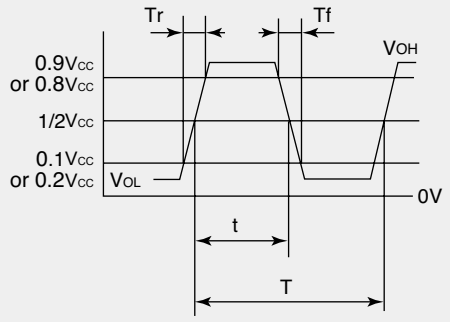
Item	Model		2725Q					
Output level			CMOS					
Nominal frequency range *1		(MHz)	2.5 ≤ F < 5	5 ≤ F < 10	10 ≤ F < 20	20 ≤ F < 40	40 ≤ F < 75	75 ≤ F ≤ 125
Operating temperature range *2		(°C)	–20 to +70					
Overall frequency tolerance		(×10^{-6})	±100					
Supply voltage [V_{CC}]		(V)	+2.5±0.1					
Current 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>



Symmetry = t/T × 100 [%]

■ Standby Function

#1 Input	#3 Output
Level H (0.7 V_{CC} ≤ V_{IH} ≤ V_{CC}) or OPEN is selected.	Oscillation output ON
Level L (V_{IL} ≤ 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:

Model name – Frequency (up to 9 digits) M – Number for specifying an order

Example :When ordering a product with model name: 2725Q, frequency: 125 MHz, overall frequency tolerance: ±100 x 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/).