

Crystal Clock Oscillator

2725 Series

Power-saving Type

■ Model name

2725Q Frequency stability 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 with the following dimensions and weight of 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 +7.0V DC
Storage temperature range -55 to +125°C

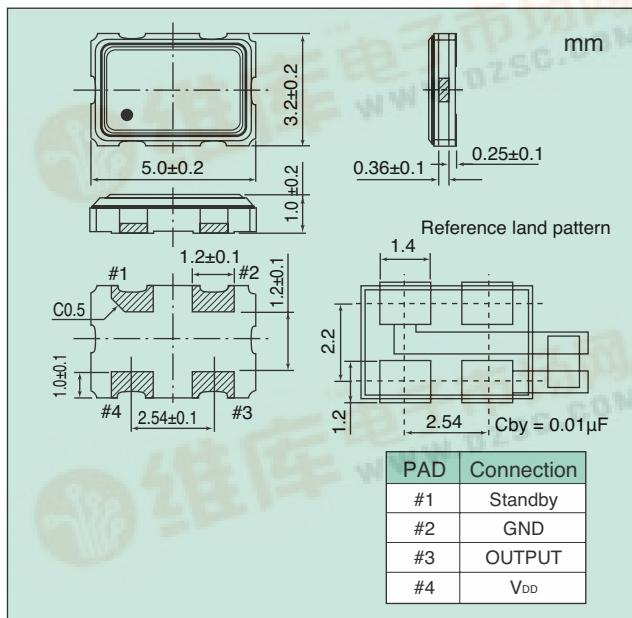


■ Specifications

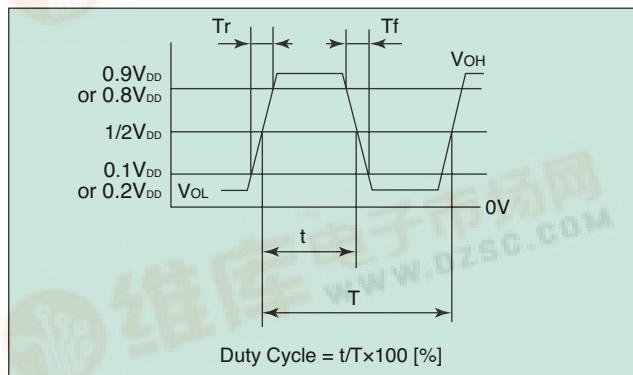
Item	Model	2725Q					
Output level	C-MOS						
Frequency range ¹⁾ (MHz)	2.5 \leq F $<$ 5	5 \leq F $<$ 10	10 \leq F $<$ 20	20 \leq F $<$ 40	40 \leq F $<$ 75	75 \leq F \leq 125	
Operating temperature range ²⁾ (°C)	-20 to +70						
Frequency stability ($\times 10^{-6}$)	± 100						
Power supply voltage (V)	+2.5 \pm 0.1						
Consumption current (+3.3V, 25°C) max	During operation (mA)	2	3	4	6	16	
	During standby (μ A)	10					
V_{OL} max/ V_{OH} min (V)	0.1 V_{DD} /0.9 V_{DD} I_{OL} =4mA I_{OH} =-4mA						
		0.2 V_{DD} /0.8 V_{DD} I_{OL} =4mA I_{OH} =-4mA					
Tr max/Tf max (ns)	5/5 (0.1 V_{DD} to 0.9 V_{DD})						
		4/4 (0.2 V_{DD} to 0.8 V_{DD})					
Duty Cycle min. to max. (%)	40 to 60 (at 1/2 V_{DD})						
Load (C _L) max (pF)	15						
Oscillation start time max (ms)	10						
Standby function	Available (tristate)						
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 <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/>).