

Crystal Clock Oscillator

2795 Series Two Frequencies-switching Type

Model name

2795Y Frequency stability of $\pm 100 \times 10^{-6}$.

Application

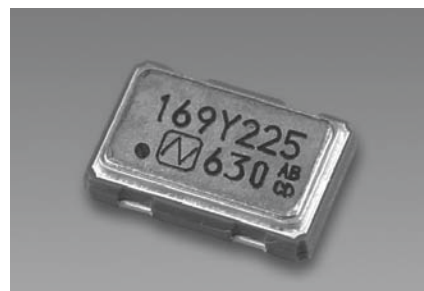
- For compact mobile information equipment, such as PDA and notebook PC

Features

- With the adoption of frequency-writing technology, even the tightest delivery deadline can be met.
- Two frequencies: switch from one to the other according to the input voltage (high or low) of PAD #1.
- PLL technology allows this crystal oscillator to support 1 to 125 MHz.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- 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

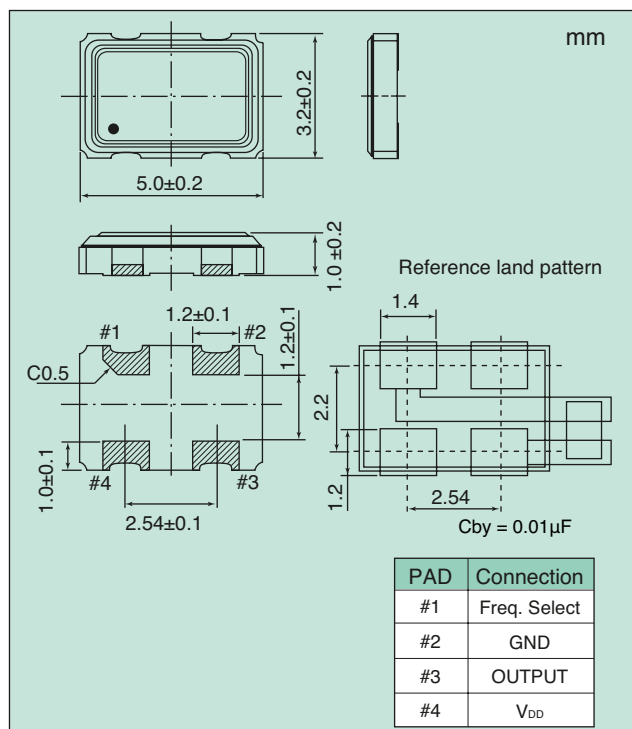
Specifications

Item	Model	2795Y		
Output level		C-MOS		
Frequency range ^{*1}	(MHz)	$1 \leq F \leq 40$	$40 < F \leq 70$	$70 < F \leq 125$
Operating temperature range ^{*2}	(°C)	-20 to +70		
Frequency stability	($\times 10^{-6}$)	± 100		
Power supply voltage	(V)	$+3.3 \pm 0.3$		
Consumption current (+3.3V, 25°C) max	(mA)	15	22	30
V_{OL} max/ V_{OH} min	(V)	$0.1V_{DD}/0.9V_{DD}$ $I_{OL}=4mA$ $I_{OH}=-4mA$		
T_r max/ T_f max	(ns)	5/5 ($0.1V_{DD}$ to $0.9V_{DD}$)		3/3 ($0.2V_{DD}$ to $0.8V_{DD}$)
Duty Cycle min. to max.	(%)	45 to 55 (at $1/2V_{DD}$)		40 to 60 (at $1/2V_{DD}$)
Load (C_L) max	(pF)	15		
Oscillation start time max	(ms)	10		
Number for specifying an order		NSA5332A		

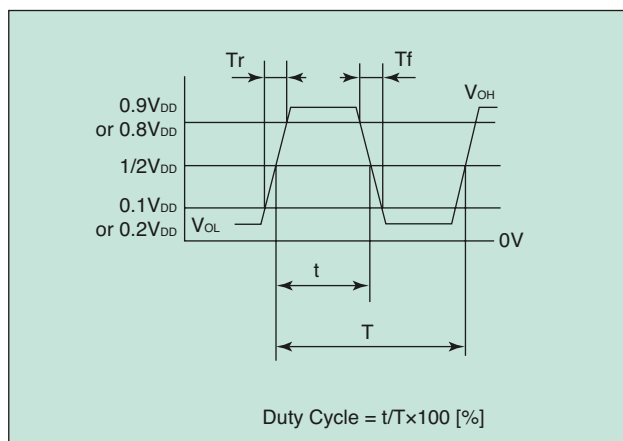
*1: If you require a product with a frequency not given above, please contact us.

*2: If you require a product with an operating temperature range not given above, please contact us.

Dimensions



Output Waveform <C-MOS>



Two Frequencies-switching Function Table

#1 Input	#3 Input
Level H (0.7 V_{DD} min.) or OPEN is selected.	F1
Level L (0.2 V_{DD} max.) is selected.	F2

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	Frequency (up to 9 digits)	M	Number for specifying an order
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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/>).

Example 1: When ordering a product with model name: 2795Y, frequency: 16.9 and 22.5 MHz, frequency stability: $\pm 100 \times 10^{-6}$, and power supply voltage: 3.3 V
Ordering Code: 2795Y - 16.900000M - 22.500000M - NSA5332A