Crystal Clock Oscillator



2725 Series

Power-saving Type

■ Model name

2725Z Overall frequency tolerance of ±30 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 1.8 V. power supply.
- Consumption current during standby is 3 μA or less.
- 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.





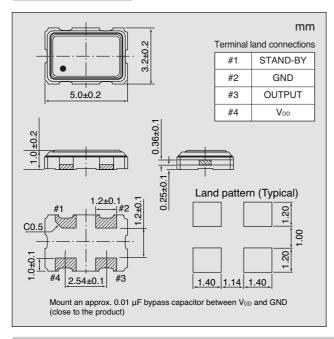
Absolute maximum rating Supply voltage (V_{DD}) -0.5 to +7.0 V Storage temperature range -55 to +125 °C

■ Specifications

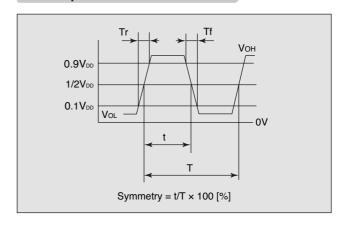
Item		Model	2725Z
Output level			CMOS
Nominal frequency range *1		(MHz)	2.5 ≤ F < 40
Operating temperature range *2		(°C)	−10 to +70
Overall frequency tolerance		(×10 ⁻⁶)	±30
Supply voltage [V _{DD}]		(V)	+1.8±0.1
Current consumption	During operation	(mA)	2 (1mA TYP.)
(+1.8 V, 25 °C) max	During standby	(µA)	3
Vol max/Voн min		(V)	0.1 V _{DD} /0.9 V _{DD}
Tr max/Tf max		(ns)	6/6 (0.1 V _{DD} to 0.9 V _{DD})
Symmetry min. to max.		(%)	40 to 60 (at 1/2 V _{DD})
Load (CL) max		(pF)	5
Start-up time max		(ms)	4
Standby function			Available (tristate)
Number for specifying an order			NSA6297C

^{*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 Vdd ≤ VlH ≤ Vdd) or OPEN is selected.	Oscillation output ON
Level L (V _{IL} ≤ 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 |

Example 1: When ordering a product with model name: 2725Z, frequency: 20 MHz, overall frequency tolerance: ±30 x 10⁻⁶, and supply voltage: 1.8 V Ordering Code: 2725Z – 20.000000M – NSA6297C

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/).