Crystal Clock Oscillator



2725 Series

Power-saving Type

■ Model name

2725Z 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 1.8 V. power supply.
- Current consumption during standby is 3 μA or less.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- Compact and light. Dimensions: 5.0 x 3.2 x 1.0 mm, weight: 0.06 g.





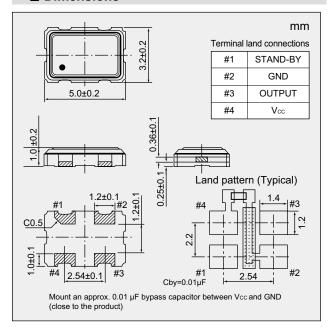
Absolute maximum rating Supply voltage (Vcc) -0.5 to +7.0 V Storage temperature range -55 to +125 °C

■ Specifications

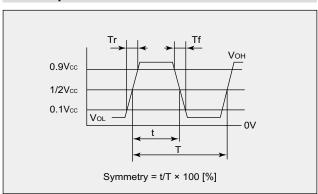
| Item | | Model | 2725Z |
|---|------------------|----------------------|--------------------------|
| Output level | | | CMOS |
| Nominal frequency range *1 | | (MHz) | 2.5 ≤ F < 40 |
| Operating temperature range *2 | | (°C) | -20 to +70 |
| Overall frequency tolerance | | (×10 ⁻⁶) | ±100 |
| Supply voltage [Vcc] | | (V) | +1.8±0.1 |
| Current consumption (+1.8 V, 25 °C) max | During operation | (mA) | 2 (1mA TYP.) |
| | During standby | (µA) | 3 |
| Vol max/Voн min | | (V) | 0.1 Vcc/0.9 Vcc |
| Tr max/Tf max | | (ns) | 6/6 (0.1 Vcc to 0.9 Vcc) |
| Symmetry min. to max. | | (%) | 40 to 60 (at 1/2 Vcc) |
| Load (C _L) max | | (pF) | 5 |
| Start-up time max | | (ms) | 4 |
| Standby function | | | Available (Three-state) |
| Number for specifying an order | | | NSA6297A |

^{*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 $V_{CC} \le V_{IH} \le V_{CC}$) 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: Example: When ordering a product with model name: 2725Z, frequency: 20 MHz, overall frequency tolerance: ±100 x 10⁻⁶, and supply voltage: 1.8 V Ordering Code: 2725Z – 20.000000M – NSA6297A 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/).