Crystal Clock Oscillator

NDK Crystal Bridge to the Future

2725 Series — Power-saving Type

■ 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.
- Lead-free.
- Compact and light. Dimensions : 5.0 x 3.2 x 1.0 mm, weight : 0.06 g.

Pb Free

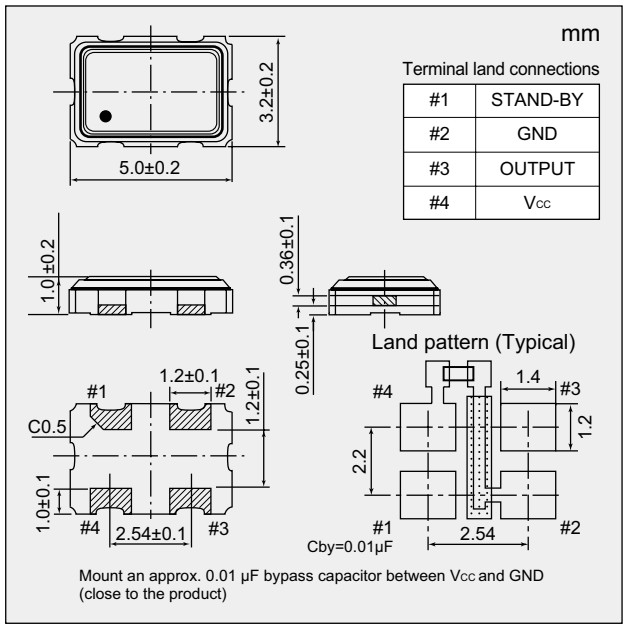
RoHS Compliant
Directive 2011/65/EU

Absolute maximum rating
Supply Voltage (V_{CC}) -0.5 to +7.0 V
Storage Temperature Range -55 to +125 °C

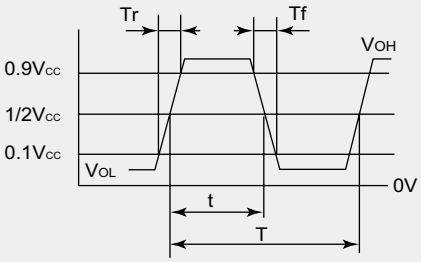
■ Specifications

Item			Model	2725Z
Output Level				CMOS
Nominal Frequency Range			(MHz)	2.5 ≤ F < 40
Operating Temperature Range			(°C)	–20 to +70
Overall Frequency Tolerance			($\times 10^{-6}$)	±100
Supply Voltage [V_{CC}]			(V)	+1.8±0.1
Current Consumption Max.	During Operation	+25 °C	(mA)	2 (Typ. 1mA)
	During Standby	+25 °C	(µA)	3
V_{OL} Max. / V_{OH} Min.			(V)	0.1 V_{CC} / 0.9 V_{CC}
Tr Max./ Tf Max.			(ns)	6/6 (0.1 V_{CC} to 0.9 V_{CC})
Symmetry Min. to Max.			(%)	40 to 60 (at 1/2 V_{CC})
Load (C_L) Max.			(pF)	5
Start-up Time Max.			(ms)	4
Standby function				Available (Three-state)
Specification Number				NSA6297A

■ 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

Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.