

# Crystal Clock Oscillator

## 2725N

## +5V Type

### Application

- For notebook PC, mobile information terminal, and PC card

### Features

- CMOS IC is directly driven.
- Product height : 1.0 mm. This is equivalent to height of slim IC package(TSSOP, TVSOP).
- Current consumption during standby is 15  $\mu$ A or less. (Max. 40MHz)
- Automatic mounting by taping and IR reflow (lead-free) are possible.



Pb Free

RoHS Compliant  
Directive 2011/65/EU  
Directive (EU) 2015/863

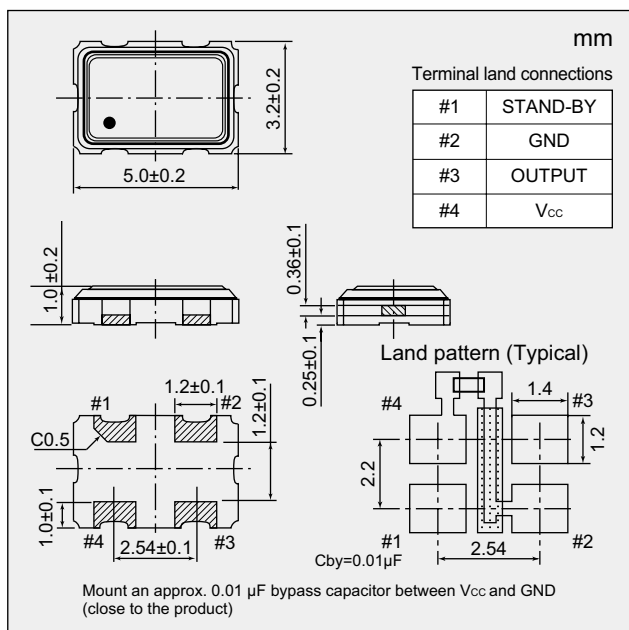
Absolute maximum rating  
Supply Voltage (V<sub>CC</sub>) -0.5 to +7.0 V  
Storage Temperature Range -55 to +125 °C

### Specifications

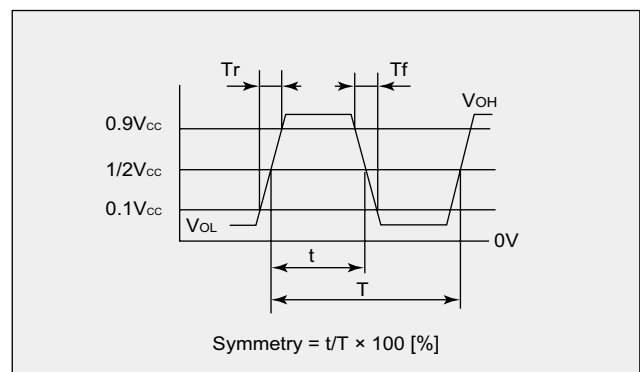
Item		Model	2725N		
Output Specification			CMOS		
Nominal Frequency Range		(MHz)	2.5 ≤ F ≤ 70		
Operating Temperature Range		(°C)	-20 to +70	-10 to +70	-10 to +60
Overall Frequency Tolerance		(×10 <sup>-6</sup> )	±100	±50	±30
Supply Voltage [V <sub>CC</sub> ]		(V)	+5±10%		
Current Consumption Max.	During Operation	+25 °C	Max. 15 (2.5 ≤ F < 20MHz) Max. 25 (20 ≤ F < 40MHz) Max. 40 (40 ≤ F < 60MHz) Max. 45 (60 ≤ F ≤ 70MHz)		
	During Standby	+25 °C	Max. 15 $\mu$ A (2.5 ≤ F < 40MHz) Max. 25m (40 ≤ F ≤ 70MHz)		
V <sub>OL</sub> Max. / V <sub>OH</sub> Min.		(V)	0.1 V <sub>CC</sub> / 0.9 V <sub>CC</sub>		
Tr Max. / Tf Max.		(ns)	5/5 (0.1 V <sub>CC</sub> to 0.9 V <sub>CC</sub> )		
Symmetry Min. to Max.		(%)	40 to 60 at 1/2 V <sub>CC</sub> (2.5 ≤ F < 40MHz) 45 to 55 at 1/2 V <sub>CC</sub> (40 ≤ F ≤ 70MHz)		
Load (C <sub>L</sub> ) Max.		(pF)	15		
Start-up Time Max.		(ms)	4 (2.5 ≤ F < 40MHz) 10 (40 ≤ F ≤ 70MHz)		
Standby function			Available (Three-state)		
Specification Number			NSA6294A	NSA6294B	NSA6294C

The values of current consumption, Tr/Tf, symmetry show the standard values at CL=15pF.

### Dimensions



### Output Waveform <CMOS>



### Standby Function

#1 Input	#3 Output
Level H (3.5 V ≤ V <sub>IH</sub> ≤ V <sub>CC</sub> ) or OPEN is selected.	Oscillation output ON
L level (V <sub>IL</sub> ≤ 0.8 V) 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.