

# Crystal Clock Oscillator

## 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 2.5 V. power supply.
- 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

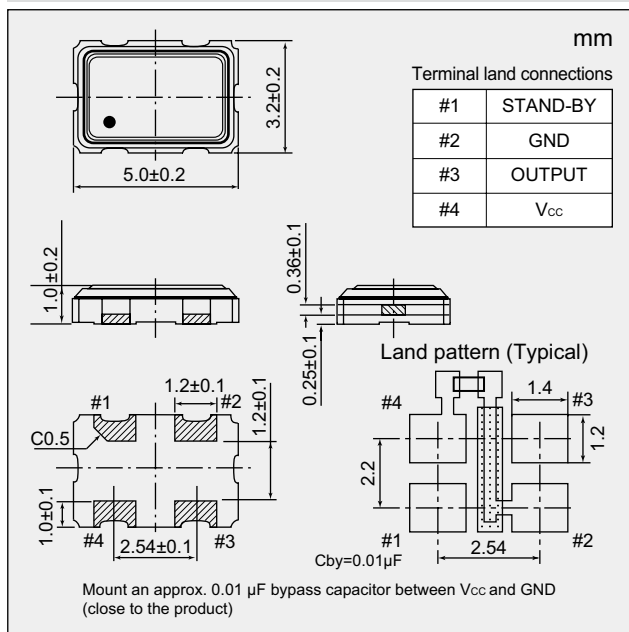
RoHS Compliant  
Directive 2011/65/EU

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

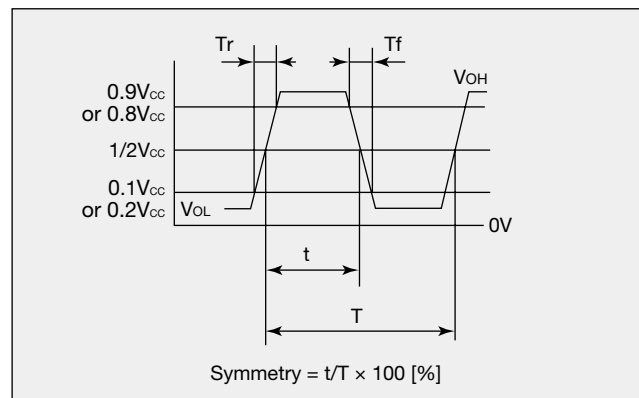
### Specifications

Item	Model	2725Q							
Output Level		CMOS							
Nominal Frequency Range	(MHz)	2.5 ≤ F < 5	5 ≤ F < 10	10 ≤ F < 20	20 ≤ F < 40	40 ≤ F < 75	75 ≤ F ≤ 125		
Operating Temperature Range	(°C)	-10 to +70							
Overall Frequency Tolerance	(×10 <sup>-6</sup> )	±50							
Supply Voltage [V <sub>CC</sub> ]	(V)	+2.5±0.1							
Current Consumption Max.	During Operation	+25 °C	(mA)	2	3	4	6	16	24
	During Standby	+25 °C	(µA)	10					
V <sub>OL</sub> max/V <sub>OH</sub> min	(V)	0.1 V <sub>CC</sub> /0.9 V <sub>CC</sub>							0.2 V <sub>CC</sub> /0.8 V <sub>CC</sub>
Tr Max. / Tf Max.	(ns)	5/5 (0.1 V <sub>CC</sub> to 0.9 V <sub>CC</sub> )							4/4 (0.2 V <sub>CC</sub> to 0.8 V <sub>CC</sub> )
Symmetry Min. to Max.	(%)	40 to 60 (at 1/2 V <sub>CC</sub> )							
Load (C <sub>L</sub> ) Max.	(pF)	15							
Start-up time Max.	(ms)	4			10				
Standby function		Available (Three-state)							
Specification Number		NSA6296B							

### Dimensions



### Output Waveform <CMOS>



### Standby Function

#1 Input	#3 Output
Level H (0.7 V <sub>CC</sub> ≤ V <sub>IH</sub> ≤ V <sub>CC</sub> ) or OPEN is selected.	Oscillation output ON
Level L (V <sub>IL</sub> ≤ 0.3 V <sub>CC</sub> ) 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.