

# Crystal Clock Oscillator

## 2725T

## Wide Operating Temperature Range Type

### Application

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

### Features

- Supports a wide temperature range.
- 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

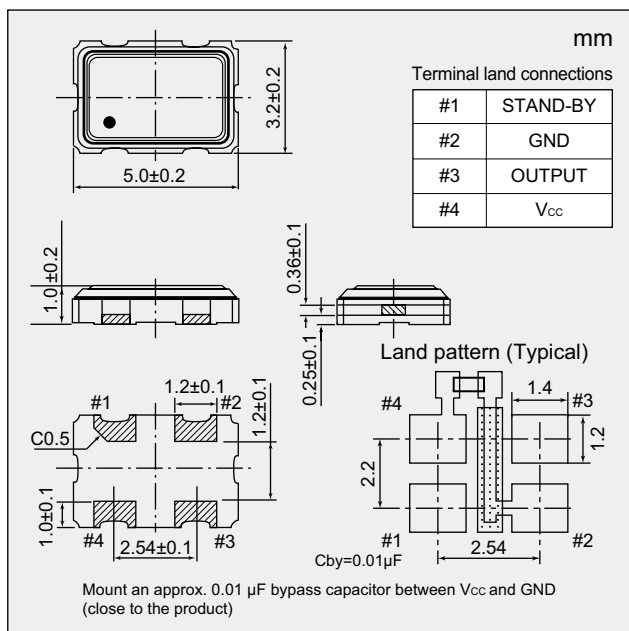
RoHS Compliant  
Directive 2011/65/EU  
Directive (EU) 2015/863

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

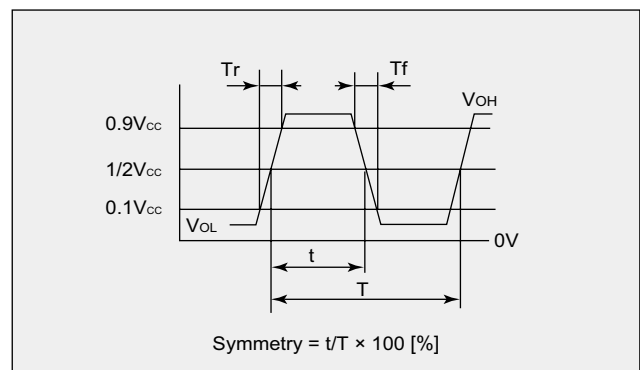
### Specifications

Item	Model	2725T		
Output Specification		CMOS		
Nominal Frequency Range	(MHz)	2.5 ≤ F < 75		
Operating Temperature Range	(°C)	-40 to +105	-40 to +85	-40 to +85
Overall Frequency Tolerance	(×10 <sup>-6</sup> )	±100	±100	±50
Supply Voltage [V <sub>CC</sub> ]	(V)	+3.3±0.1		
Current Consumption Max.	During Operation	+25 °C	(mA)	
	During Standby	+25 °C	(μA)	
			8 (2.5 ≤ F < 20MHz) 15 (20 ≤ F < 40MHz) 22 (40 ≤ F < 60MHz) 25 (60 ≤ F < 75MHz)	
			10	
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.	(%)	45 to 55 (at 1/2 V <sub>CC</sub> )		
Load (C <sub>L</sub> ) Max.	(pF)	15		
Start-up time Max.	(ms)	4 (2.5 ≤ F < 40MHz) 10 (40 ≤ F < 75MHz)		
Standby function		Available (Three-state)		
Specification Number		NSA6293F	NSA6293D	NSA6293E

### 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.