

Crystal Clock Oscillator

2725Q

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

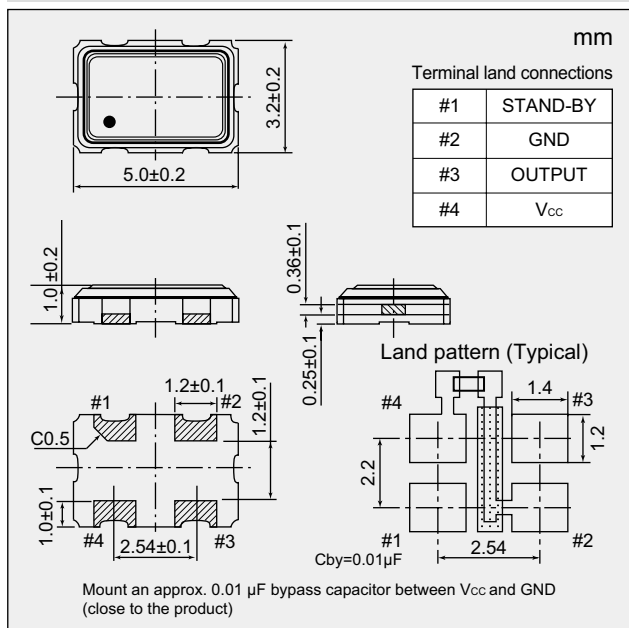
RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

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

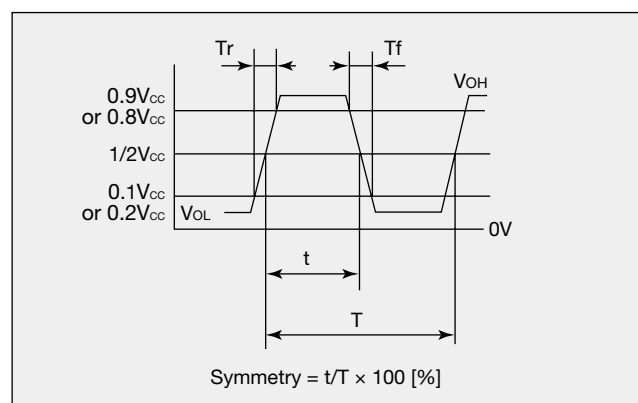
Specifications

Item		Model	2725Q	
Output Specification			CMOS	
Nominal Frequency Range		(MHz)	2.5 ≤ F ≤ 125	
Operating Temperature Range		(°C)	-20 to +70	-10 to +70
Overall Frequency Tolerance		(×10 ⁻⁶)	±100	±50
Supply Voltage [V _{CC}]		(V)	+2.5±0.1	
Current Consumption Max.	During Operation	+25 °C	(mA)	2 (2.5 ≤ F < 5MHz) 3 (5 ≤ F < 10MHz) 4 (10 ≤ F < 20MHz) 6 (20 ≤ F < 40MHz) 16 (40 ≤ F < 75MHz) 24 (75 ≤ F ≤ 125MHz)
	During Standby	+25 °C	(µA)	10
V _{OL} max/V _{OH} min		(V)	0.1 V _{CC} /0.9 V _{CC} (2.5 ≤ F < 75MHz) 0.2 V _{CC} /0.8 V _{CC} (75 ≤ F ≤ 125MHz)	
Tr Max. / Tf Max.		(ns)	5/5 : 0.1 V _{CC} to 0.9 V _{CC} (2.5 ≤ F < 75MHz) 4/4 : 0.2 V _{CC} to 0.8 V _{CC} (75 ≤ F ≤ 125MHz)	
Symmetry Min. to Max.		(%)	40 to 60 (at 1/2 V _{CC})	
Load (C _L) Max.		(pF)	15	
Start-up time Max.		(ms)	4 (2.5 ≤ F < 40MHz) 10 (40 ≤ F ≤ 125MHz)	
Standby function			Available (Three-state)	
Specification Number			NSA6296A	NSA6296B

Dimensions



Output Waveform <CMOS>



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.