Crystal Clock Oscillator

NDK Crystal Bridge to the Future

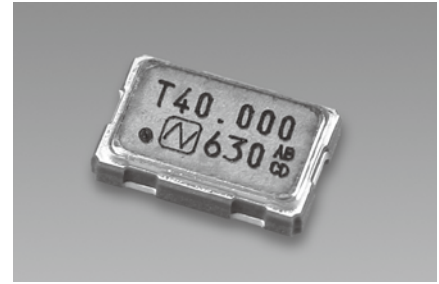## 2725T   For wireless LAN

■ Application

- For wireless LAN

■ Features

- A high-precision type. Best suited for wireless LAN-compliant information terminal devices.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- Lead-free.
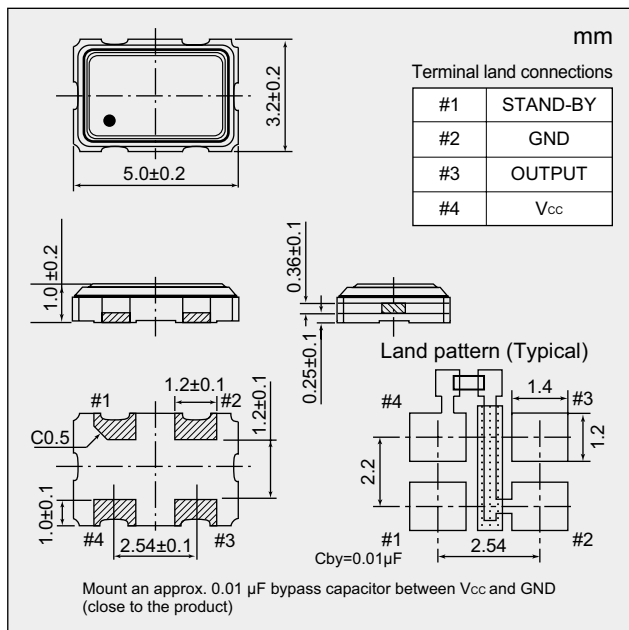- Compact and light. Dimensions : 5.0 x 3.2 x 1.0 mm, weight : 0.06 g.

Pb Free

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

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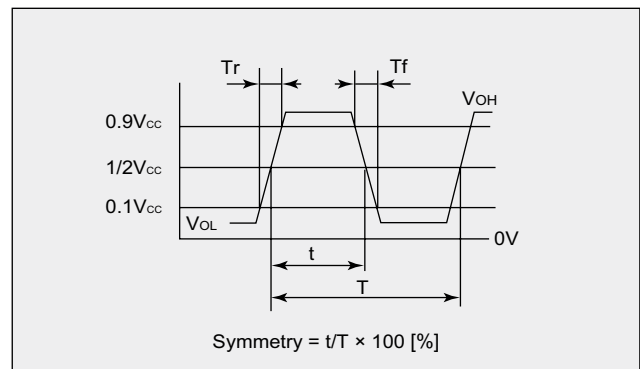Supply Voltage (Vcc) -0.5 to +7.0 V
Storage Temperature Range -55 to +125 °C

■ Specifications

Item	Model		2725T		
Output Specification			CMOS		
Nominal Frequency Range	(MHz)		22	40	44
Operating Temperature Range	(°C)		−10 to +70		
Overall Frequency Tolerance	(×10⁻⁶)		±25		
Supply Voltage [Vcc]	(V)		+3.3±0.1		
Current Consumption Max.	During Operation +25 °C	(mA)	15	22	22
	During Standby +25 °C	(A)	10 μ		6 m
VOL Max. / VOH Min.	(V)		0.1 Vcc / 0.9 Vcc		
Tr Max. / Tf Max.	(ns)		5/5 (0.1 Vcc to 0.9 Vcc)		
Symmetry Min. to Max.	(%)		45 to 55 (at 1/2 Vcc)		
Load (CL) Max.	(pF)		15		
Start-up time Max.	(ms)		4	10	
Standby function			Available (Three-state)		
Specification Number			NSA6046A	NSA6045A	NSA6044A

■ Dimensions

mm

3.2±0.2
5.0±0.2
1.0±0.2
0.36±0.1
0.25±0.1

Terminal land connections

#1	STAND-BY
#2	GND
#3	OUTPUT
#4	Vcc

Land pattern (Typical)

1.2±0.1
1.2±0.1
C0.5
1.0±0.1
#1   #2
#4   #3
2.54±0.1

#4   1.4   #3
2.2   1.2
#1   2.54   #2
Cby=0.01μF

Mount an approx. 0.01 μF bypass capacitor between Vcc and GND
(close to the product)

■ Output Waveform <CMOS>

Tr   Tf   VOH
0.9Vcc
1/2Vcc
0.1Vcc
VOL   0V
t
T

Symmetry = t/T × 100 [%]

■ Standby Function

#1 Input	#3 Output
Level H (0.7 Vcc ≤ VIH ≤ Vcc) or OPEN is selected.	Oscillation output ON
Level L (Max. +0.3 Vcc) is selected. (22 MHz, 40 MHz)	High impedance
Level L (Max. +0.15 Vcc) is selected. (44 MHz)	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.