Crystal Clock Oscillator

NDK
Crystal Bridge to the Future

2725 Series

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.
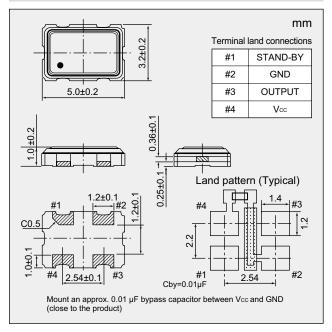
Pb Free

RoHS Compliant
Directive 2011/65/EU

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

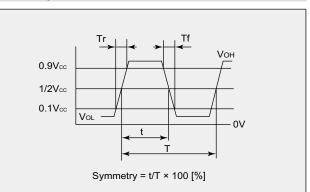## ■ Specifications

Item			Model	2725T		
Output Level				CMOS		
Nominal Frequency Range			(MHz)	22	40	44
Operating Temperature Range			(°C)	–10 to +70		
Overall Frequency Tolerance			(×10⁻⁶)	±25		
Supply Voltage [V_{CC}]			(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
V_{OL} Max. / V_{OH} Min.			(V)	0.1 V_{CC} / 0.9 V_{CC}		
Tr Max. / Tf Max.			(ns)	5/5 (0.1 V_{CC} to 0.9 V_{CC})		
Symmetry Min. to Max.			(%)	45 to 55 (at 1/2 V_{CC})		
Load (C_L) Max.			(pF)	15		
Start-up time Max.			(ms)	4	10	
Standby function				Available (Three-state)		
Specification Number				NSA6046A	NSA6045A	NSA6044A

■ Dimensions

mm

Terminal land connections

#1	STAND-BY
#2	GND
#3	OUTPUT
#4	V_{CC}

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

Land pattern (Typical)

1.2±0.1
1.2±0.1
C0.5
1.0±0.1
2.54±0.1

2.2
1.4
1.2
2.54
Cby=0.01μF

Mount an approx. 0.01 μF bypass capacitor between V_{CC} and GND (close to the product)

■ Output Waveform <CMOS>

Symmetry = t/T × 100 [%]

■ 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 (Max. +0.3 V_{CC}) is selected. (22 MHz, 40 MHz)	High impedance
Level L (Max. +0.15 V_{CC}) 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.