

# CRYSTAL UNITS

For Mobile Communication and Bluetooth

## SURFACE MOUNT TYPE CRYSTAL UNITS / NX4025DA

This is a surface mount type, meeting the reference clock frequencies requiring many Bluetooth chip sets.

### Features

- Compact and thin (4.0×2.5×0.6 mm typ.).
- Prepared frequencies can meet most of bluetooth chip sets.
- Excellent electric performance optimum for mobilephone and bluetooth applications are exhibited.
- Excellent heat resistance and shock resistance.
- Products that are lead-free. These can meet the requirements of re-flow profiling using lead-free solder.



### Specification

Item	Type	NX4025DA	
Frequency Range (MHz)		12 ~ 32MHz	
Overtone		Fundamental	
Frequency Tolerance (at 25±3°C)		± 10 × 10 <sup>-6</sup>	
Temperature Characteristics (in reference to +25°C)		± 15 × 10 <sup>-6</sup>	
Operating Temperature Range		-10 ~ +60°C	-30 ~ +85°C
Equivalent Series Resistance		12~13 MHz : 80Ω max, 13~16 MHz : 60Ω max 16~20 MHz : 50Ω max, 20~32 MHz : 40Ω max	
Drive Level		10 μW (100 μW max)	
Standard Load Capacitance		10pF, 13pF	
Operable Temperature Range		-40 ~ +85°C	

Typical Frequency (MHz)

Fundamental	12.0	12.6	13.0	14.4	14.7456	16.0	19.2
	19.44	19.68	20.0	24.0	25.2	26.0	32.0

### Dimensions

