

## For Automotive Electronics

### SURFACE MOUNT TYPE CRYSTAL UNITS / NX8045GB

These surface mount crystal units are ideally suited for clock signal generating sources for CPUs for power trains and safety control devices requiring extremely high reliability as an electronic part used in a car.

This crystal unit can meet requirement starting from a low frequency 5MHz.



#### ■ Features

- This crystal unit exhibit stabilized startup characteristic even under extremely severe environmental conditions.
- This crystal unit is provided with superior environmental performance including heat resistance, vibration resistance, impact resistance, etc.
- Products that are lead-free. These can meet the requirements of re-flow profiling using lead-free solder.

#### ■ Specification

Item	Type	NX8045GB
Frequency Range		5 ~ 40MHz
Overtone		Fundamental
Frequency Tolerance (25±3°C)		± 50 × 10 <sup>-6</sup>
Temperature Characteristics (in reference to +25°C)		± 180 × 10 <sup>-6</sup>
Operating Temperature Range		-40 ~ +150°C
Equivalent Series Resistance		5 ~ 8MHz : 300 Ω max, 8 ~ 10MHz : 220 Ω max, 10 ~ 40MHz : 150 Ω max
Drive Level		10 μW (500 μW max)
Standard Load Capacitance		8pF
Operable Temperature Range		-40 ~ +150°C

#### Typical Frequency (MHz)

Fundamental	5.0	8.0	10.0	12.0	14.0
	15.0	16.0	18.0	20.0	24.0

#### ■ Dimensions

