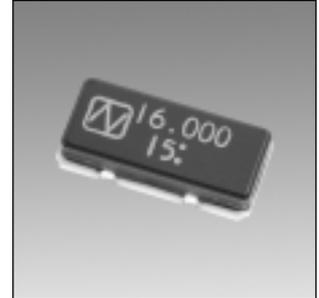


# CRYSTAL UNITS

## CRYSTAL UNITS FOR AUTOMOTIVE ELECTRONICS (NX1255GA/CP12A)

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.



### ■ 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.
- This crystal unit can meet requirements starting from a low frequency 3.5MHz.
- These products can meet the requirements of re-flow profiling using lead-free solder.

### ■ Specification

Item	Type	NX1255GA (CP12A)			
Frequency Range		3.5 MHz ~ 4 MHz	4 MHz ~ 8 MHz	8 MHz ~ 12 MHz	12 MHz ~ 25 MHz
Overtone		Fundamental			
Frequency Tolerance (25±3°C)		± 100 × 10 <sup>-6</sup>			
Temperature Characteristics (in reference to +25°C)		± 150 × 10 <sup>-6</sup>			
Operating Temperature Range		-40 ~ +125°C			
Equivalent Series Resistance		200 Ω max	180 Ω max	120 Ω max	80 Ω max
Drive Level		100 μW (500 μW max)			
Standard Load Capacitance		12pF			
Operable Temperature Range		-40 ~ +150°C			

### Typical Frequency (MHz)

Fundamental	4.0	5.0	8.0	12.0	16.0	20.0
	4.5	6.0	10.0	15.0	18.0	24.0

### ■ Dimensions

