Crystal Units

Crystal Bridge to the Future

NX8045GE

For Automotive

■ Features

A small surface-mount type crystal unit, ideal for Automotive.

- Supports low frequencies(from 4MHz to 8MHz).
- Small SMD package. (8.0×4.5×2.0mm)
- Excellent environmental characteristics, including heat, vibration and shock resistance.
- High resistance to solder cracking. Excellent performance for wide temperature range heat cycles (-40 to +150°C, 3,000 cycles) when mounted on a glass epoxy circuit board.
- Support a wide operating temperature range(-40 to +150°C).
- Meets the requirements for re-flow profiling using lead-free solder.
- Conforms to AEC-Q200.

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

■ Specifications

Item \ Model	NX8045GE	
Standard	Standard	Optional
Nominal Frequency (MHz)	4 ≤ F ≤ 8	4 ≤ F ≤ 8
Overtone Order	Fundamental	Fundamental
Frequency Tolerance (25 ±3 °C)	±50 × 10^{-6}	±50 × 10^{-6}
Frequency versus Temperature Characteristics (with reference to +25 °C)	±150 × 10^{-6}	±150 × 10^{-6}
Operating Temperature Range (°C)	−40 to +150	−40 to +150
Storage Temperature Range (°C)	−40 to +150	−40 to +150
Equivalent Series Resistance (Ω)	Max. 150	Max. 150
Level of Drive (μW)	50 (Max. 500)	50 (Max. 500)
Load Capacitance (pF)	8	6 to 32
Frequency Aging (+25 °C)	---	Max. ±10 × 10^{-6} / year *1
Specifications Number	STD-CJL-6	Refer to *2

Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.
*1 If you have any other requests, NDK will study it.
*2 Ordering information: Overtone Order Fundamental / 3rd Overtone, the Operating Temperature Range, Frequency versus Temperature Characteristics, Frequency Tolerance, and Load Capacitance.
Ex. Model, Frequency (8.000000MHz 6digits), S1: Fundamental or S3 : 3rd overtone
– Operating Temperature Range (−40 to +150°C) − Frequency versus Temperature Characteristics (±150 × 10^{-6})
− Frequency Tolerance (±50 × 10^{-6}) − Load Capacitance (10pF)
NX8045GE
8.000000MHz
S1-40150-150-50-10

■ Dimensions