

# BNX027H01#

“#” at the end indicates the package specification code.



## < List of part numbers with package codes >

BNX027H01B      BNX027H01K      BNX027H01L

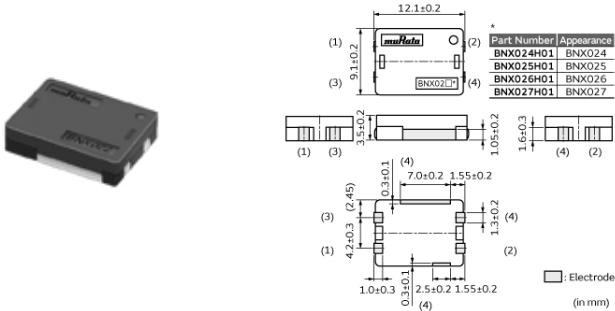
## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specific Applications    | Automotive powertrain/safety equipment, Automotive infotainment/comfort equipment, Consumer equipment, Medical equipment [GHF A/B/C] except for implant & surgery & auto injector, Industrial Equipment<br>Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product. |
| Recommended Applications | Automotive powertrain/safety equipment                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Packaging Information

| Packaging | Specifications      | Standard Packing Quantity |
|-----------|---------------------|---------------------------|
| B         | Bulk(Bag)           | 100                       |
| K         | 330mm Embossed Tape | 1500                      |
| L         | 180mm Embossed Tape | 400                       |

## Appearance & Shape



### Attention

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- 2.This datasheet has only typical specifications because there is no space for detailed specifications.  
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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## Features

BNX024H/025H/026H/027H (Block Type EMIFIL for automotive)

is EMI suppression filter supporting large current, wide frequency.

And it also supports SMD mounting.

This product is effective for noise suppression for DC switching line of automotive device and FA/OA device, because it covers wide temperature range from -55C degrees to 125 C degrees.

### Features

1. Supporting large current (20A)
2. Supporting wide frequency range  
From 40kHz to 1GHz:35dB min.(BNX027)
3. Suitable for miniaturization with SMD shape.

### Applications

Automotive devices/Displays (PDP/LCD-TV)/  
Digital AVEquipments/Amusement equipments/  
PC peripheral equipments/Industry equipments/  
Measurement equipments/Power supplies

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## Specifications

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| Shape                       | SMD                                             |
| Length                      | 12.1mm                                          |
| Length Tolerance            | ±0.2mm                                          |
| Width                       | 9.1mm                                           |
| Width Tolerance             | ±0.2mm                                          |
| Thickness                   | 3.5mm                                           |
| Thickness Tolerance         | ±0.2mm                                          |
| Rated Current               | 20A                                             |
| Operating Temperature Range | -55°C to 125°C                                  |
| Mass(typ.)                  | 0.86g                                           |
| Rated Voltage               | 16Vdc                                           |
| Withstanding Voltage        | 40Vdc                                           |
| Insulation Resistance(min.) | 1MΩ                                             |
| Insertion Loss              | 40kHz to 1GHz:35dB min.<br>(Line impedance=50Ω) |

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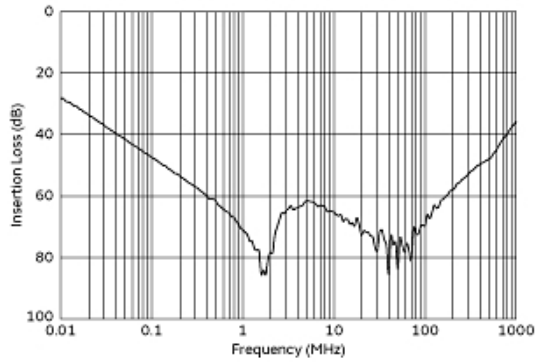
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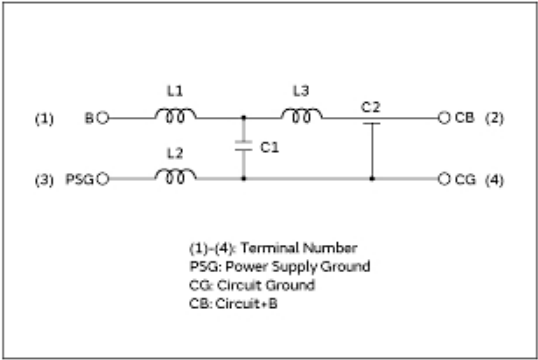
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## Product Data



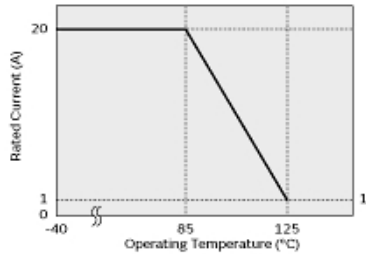
Insertion Loss Characteristics



Equivalent Circuit

In operating temperature exceeding +85°C, derating of current is necessary for BNX024H/025H/026H/027H series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Derating of Rated Current

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