

# BNX012H01






Note: This datasheet may be out of date.

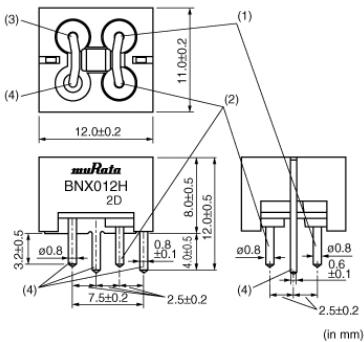
Please download the latest datasheet of BNX012H01 from the official website of Murata Manufacturing Co., Ltd.

<http://www.murata.com/en/products/productdetail?partno=BNX012H01>

## 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 [Ask Murata]<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. |

## Appearance & Shape



## Packaging Information

| Packaging | Specifications | Standard Packing Quantity |
|-----------|----------------|---------------------------|
| -         | Box            | 150                       |

## Features

BNX012H series is noise suppression filter and ESD surge protection filter for Automotive. Suitable for the power supply circuits which is large current and wide frequency range.

### Features

1. Large rated current(15A)
2. High insertion loss characteristic over a wide frequency range 1MHz to 1GHz: 40dB min
3. Low profile (height: 8.0mm except lead terminal)

### Applications

Noise suppression and ESD surge protection for power lines such as ECU, DC-DC Converters, and Inverter circuits.

### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, its specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

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.

# BNX012H01

## Specifications

|                             |  |
|-----------------------------|--|
| Shape                       | Lead   |
| Length                      | 12.0mm   |
| Length Tolerance            | ±0.2mm   |
| Width                       | 11.0mm   |
| Width Tolerance             | ±0.2mm   |
| Thickness                   | 8.0mm  |
| Thickness Tolerance         | ±0.5mm   |
| Rated Current               | 15A  |
| Operating Temperature Range | -55°C to 125°C                                 |
| Mass(typ.)                  | 2.0g   |
| Rated Voltage               | 50Vdc  |
| Withstanding Voltage        | 125Vdc   |
| Insulation Resistance(min.) | 500MΩ  |
| Insertion Loss              | 1MHz to 1GHz:40dB min.<br>(Line impedance=50Ω) |

**Attention**

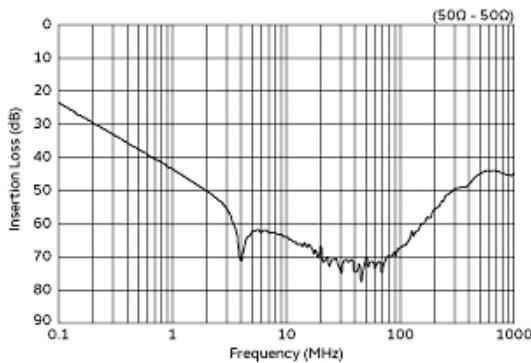
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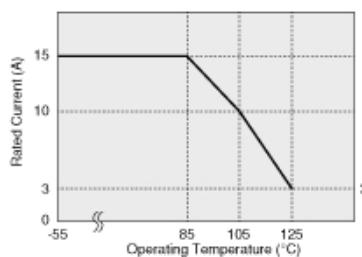
## Product Data



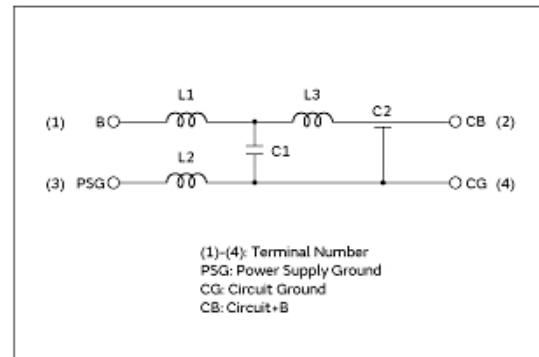
Insertion Loss Characteristics

In operating temperatures exceeding +85°C, derating of current is necessary for BNX012H series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Derating of Rated Current



Equivalent Circuit

In case of using ± power line, please connect to each terminal as shown.

| Power Supply (BNX Input) | BNX | Circuit (BNX Output) |
|--------------------------|-----|----------------------|
| Power Supply + Bias -    | B   | CB                   |
| Power Supply Ground -    | PSG | CG                   |
| Power Supply - Bias -    | B   | CB                   |
| Power Supply Ground -    | PSG | CG                   |

- Load Circuit + Bias  
- Load Circuit Ground  
- Load Circuit - Bias  
- Load Circuit Ground

Derating of Rated Current

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