

BNX012-01

In Production

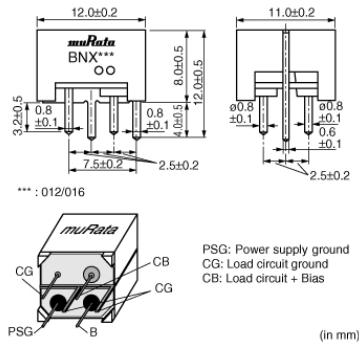
RoHS

REACH

Applications

| | |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications | Please be sure to read and comply with these "Precautions for use." |
| Specific Applications | <p>Consumer equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial equipment except for transportation & facility & energy equipment</p> <p>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.</p> |
| Recommended Applications | Consumer equipment |

Appearance & Shape



Packaging Information

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

Features

Large current, wide band compatible, low profile type ultra-high performance EMI filter ideal for noise suppression in DC power lines.

Features

1. High insertion loss characteristic over a wide frequency band range.
1MHz to 1GHz: 40dB min (BNX012)
100kHz to 1GHz: 40dB min (BNX016)
2. Large rated current (15A)
3. Low profile (height: 8.0mm except lead terminal)
4. Effective for impulse noise such as electrostatic discharge or spike noise.

Applications

1. Displays (PDP/LCD-TV)
2. Digital AV equipment
3. Amusement equipment
4. PC peripheral equipment
5. Industry equipment

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.

BNX012-01



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 | -40°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. (Line impedance=50Ω) |

Attention

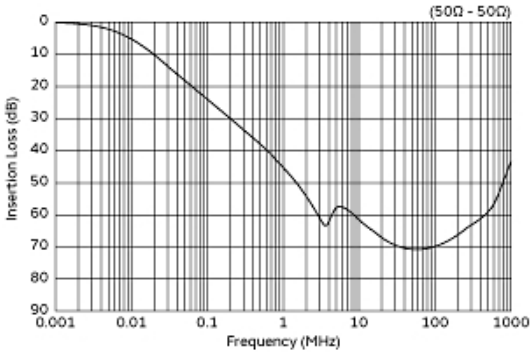
1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

2.This datasheet has only typical specifications because there is no space for detailed specifications.

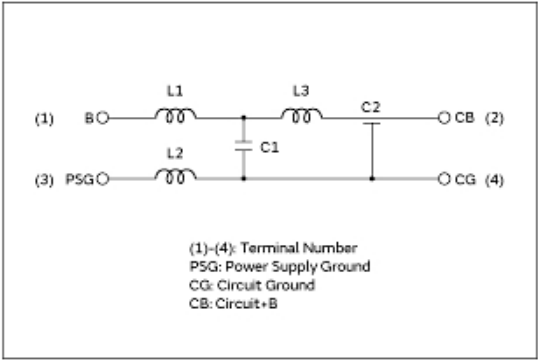
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

BNX012-01

Product Data



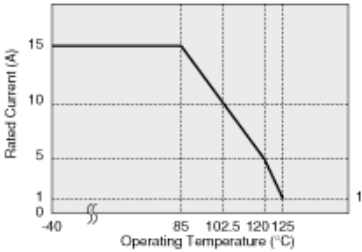
Insertion Loss Characteristics



Equivalent Circuit

In operating temperature exceeding +85°C, derating of current is necessary for BNX01□ series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Derating of Rated Current

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 | Load Circuit + Bias |
| Power Supply Ground | PSG CG | Load Circuit Ground |
| Power Supply - Bias | B CB | Load Circuit - Bias |
| Power Supply Ground | PSG CG | Load Circuit Ground |

Derating of Rated Current

Attention

- 1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's 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.