Note: This datasheet may be out of date.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-sg/products/productdetail?partno=BNX012H01

BNX012H01

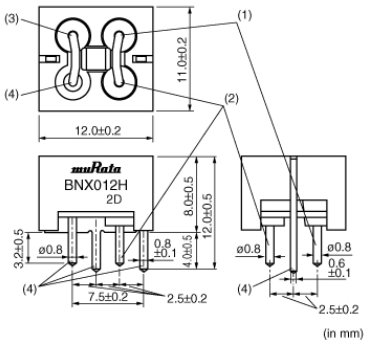
In Production | AEC-Q200 | RoHS | REACH

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 [GHTF A/B/C] except for implant & surgery & auto injector,Industrial Equipment 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

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, 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.

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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℃ to 125℃
Mass(typ.)	2.0g
Rated Voltage	50Vdc
Withstanding Voltage	125Vdc
Insulation Resistance(min.)	500MΩ
Insertion Loss	1MHz to 1GHz:40dB min. (Line impedance=50Ω)

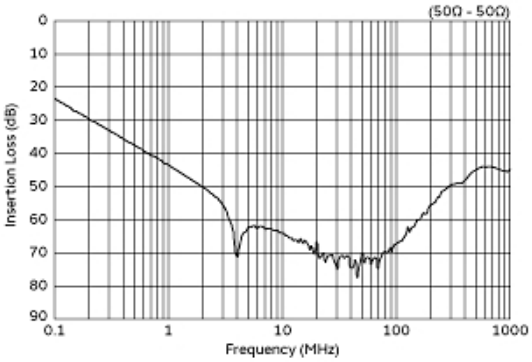
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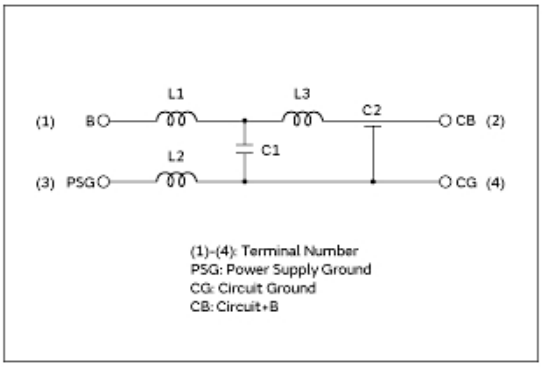
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BNX012H01

Product Data



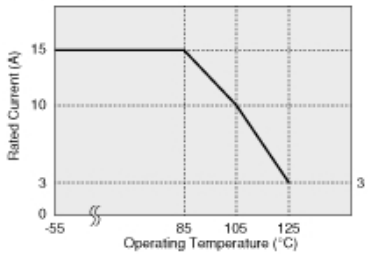
Insertion Loss Characteristics



Equivalent Circuit

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

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

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