

BNX012H01

In Production

AEC-Q200

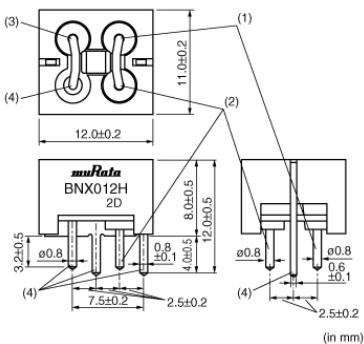
RoHS

REACH

Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	<p>Automotive powertrain/safety equipment, Automotive infotainment/comfort equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector</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	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, 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.

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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. (Line impedance=50Ω)

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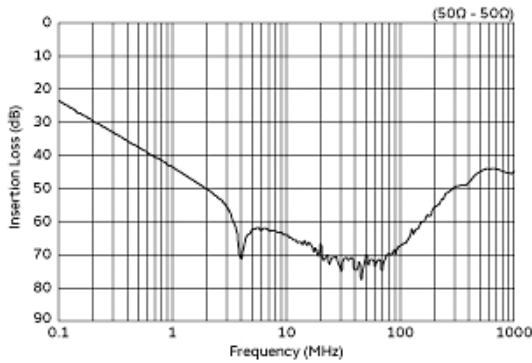
Note: If you have not downloaded this document from our official website, please note that the information provided may not be the most current.

Please download the latest datasheet of BNX012H01 from the official website of Murata

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



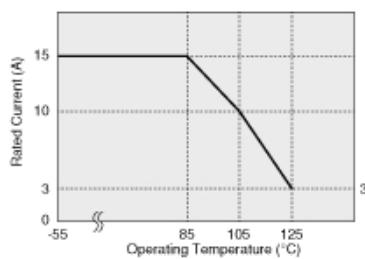
Product Data



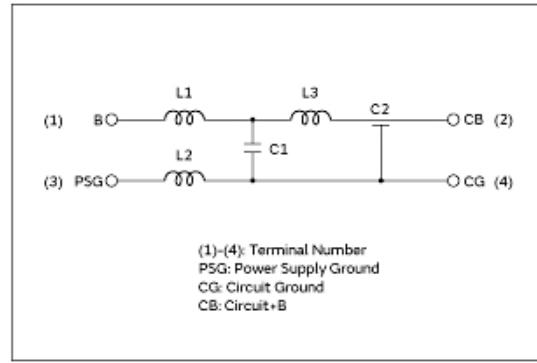
Insertion Loss Characteristics

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 - 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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