

# **Excellent Integrated System Limited**

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Murata Electronics North America BNX012-01

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



## **Distributor of Murata Electronics North America: Excellent Integrated System Limited** Datasheet of BNX012-01 - FILTER EMI 15A 50V 1MHZ-1GHZ Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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# On-Board Type (DC) EMI Suppression Filters (EMIFIL<sup>®</sup>)



## Block Type EMIFIL<sup>®</sup> BNX Series

## **BNX Series**

The block type "EMIFIL" BNX series incorporates through-type capacitor, monolithic chip capacitors and bead. The BNX is high performance for use in DC power circuits.

## Features

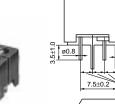
- 1. The filter enables obtaining high insertion loss in wide frequency ranges from 0.5MHz to 1GHz.
- 2. The only one filter block enable noise suppression of both the positive and negative lines.
- 3. There are no connection routes in the current circuits, thus ensuring highly reliable performance.

#### Applications

Noise suppression for DC power line of large screen display

- 1. PDP
- 2. LCD-TV





12.0±0.5

12.0±0.5

13 max

0.8 ±0.1

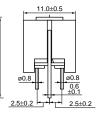
2.5±0.2

13.5 ma

2.5+0.2

Patá

18 max



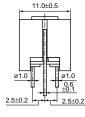
BNX002/BNX003

PSG : Power supply ground CG : Load circuit ground CB : Load circuit + Bias

(in mm)



BNX005



PSG : Power supply ground CG : Load circuit ground CB : Load circuit + Bias

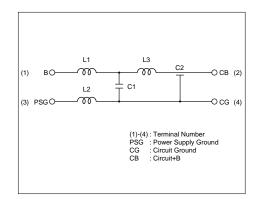
(in mm)

4

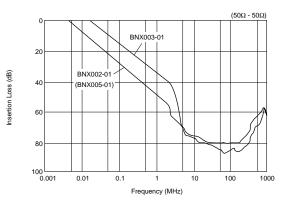
Part Number	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Rated Current (A)	Insulation Resistance (min.) (M ohm)	Insertion Loss
BNX002-01	50	125	10	100	1MHz to 1GHz:40dB min.(20 to 25°C line impedance=50 ohm)
BNX003-01	150	375	10	100	5MHz to 1GHz:40dB min.(20 to 25°C line impedance=50 ohm)
BNX005-01	50	125	15	100	1MHz to 1GHz:40dB min.(20 to 25°C line impedance=50 ohm)

Operating Temperature Range : -30°C to 85°C

## Equivalent Circuit



## ■ Insertion Loss Characteristics (Typical)





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## **BNX Series Low Profile for Large Current**

The block type "EMIFIL" BNX010 series is high performance and BNX series provide excellent noise suppression on DC power line.

#### 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) and Low Rdc

(0.8m ohm-typ.)

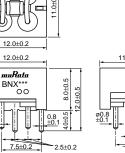
3. Low profile (height: 8.0mm except lead terminal)

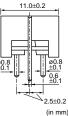
#### Applications

Noise suppression for DC power line of large screen display 1. PDP

2. LCD-TV



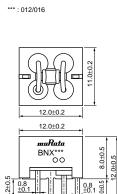




BNX012

2±0.5

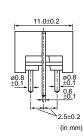
0.8



7 5+0 2

\*\*\* : 012/016

2 5+0 2

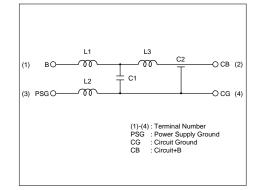


BNX016

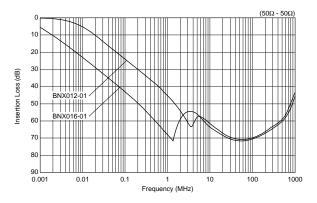
Part Number	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Rated Current (A)	Insulation Resistance (min.) (M ohm)	Insertion Loss
BNX012-01	50	125	15	500	1MHz to 1GHz:40dB min.(20 to 25°C line impedance=50 ohm)
BNX016-01	25	62.5	15	50	100kHz to 1GHz:40dB min.(20 to 25°C line impedance=50 ohm)

Operating Temperature Range : -40°C to 125°C

## Equivalent Circuit



## Insertion Loss Characteristics (Typical)



Continued on the following page.



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Continued from the preceding page.

## ■ Notice (Rating)

electro

In operating temperatures exceeding +85°C, derating of current is necessary for BNX010 series. Please apply the derating curve shown in chart according to the operating temperature.

