Block Type EMIFIL® BNX Series

SMD Type

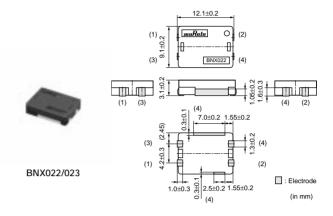
BNX022 series is SMD type high performance and provides excellent noise suppression on DC power lines.

■ Features

- 1. Large rated current (10A-15A) and Low DC Resistance. (0.43m ohm - Typ.)
- 2. High insertion loss characteristic over a wide frequency range of 1MHz to 1GHz.
- 3. Mounting area and volume is reduced.
- 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, measurement equipment, power supplies



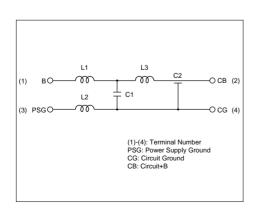
Part Number	Voltage (Vdc)	Withstand Voltage (Vdc)	Current (A)	Resistance (min.) (M ohm)	Insertion Loss
BNX022-01	50	125	10	500	1MHz to 1GHz:35dB min. (20 to 25 degrees C line impedance=50 ohm)
BNX023-01	100	250	15	500	1MHz to 1GHz:35dB min. (20 to 25 degrees C line impedance=50 ohm)

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

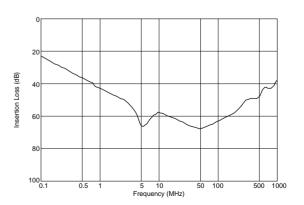
In operating temperatures exceeding +85°C, derating of current is necessary.

Please refer to p.141, "Derating of Rated Current".

■ Equivalent Circuit



■ Insertion Loss Characteristics



Continued on the following page.



sales representatives or product engineers before ordering.

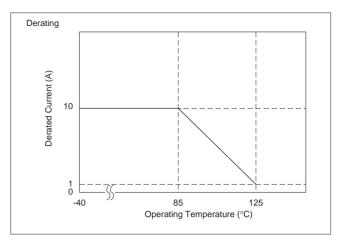
• This PDF catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

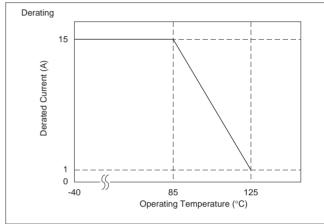
Continued from the preceding page.

■ Derating of Rated Current

In operating temperatures exceeding +85°C, derating of current is necessary for BNX022 series. Please apply the derating curve shown in chart according to the operating temperature.

In operating temperatures exceeding +85°C, derating of current is necessary for BNX023 series. Please apply the derating curve shown in chart according to the operating temperature.





Lead Type

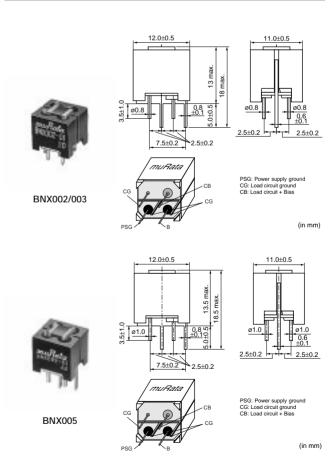
The block type "EMIFIL" BNX series incorporates through-type capacitor, monolithic chip capacitors and bead. The BNX is high performance for use in DC power circuits.

■ Features

- 1. The filter enables obtaining high insertion loss in wide frequency ranges from 0.5MHz to 1GHz.
- 2. Effective for impulse noise such as electrostatic discharge or spike noise.
- 3. There are no connection routes in the current circuits, thus ensuring highly reliable performance.

■ Applications

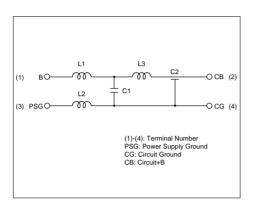
- 1. Displays (PDP/LCD-TV)
- 2. Digital AV equipment
- 3. Amusement equipment
- 4. PC peripheral equipment
- 5. Industry equipment



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 degrees C line impedance=50 ohm)
BNX003-01	150	375	10	100	5MHz to 1GHz:40dB min. (20 to 25 degrees C line impedance=50 ohm)
BNX005-01	50	125	15	100	1MHz to 1GHz:40dB min. (20 to 25 degrees C line impedance=50 ohm)

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

■ Equivalent Circuit



Lead Type Low Profile

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

■ Features

1. High insertion loss characteristic over a wide frequency band range.

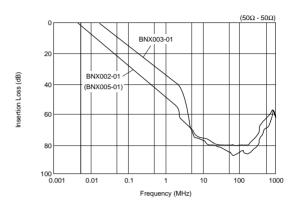
1MHz to 1GHz: 40dB min (BNX012) 100kHz to 1GHz: 40dB min (BNX016)

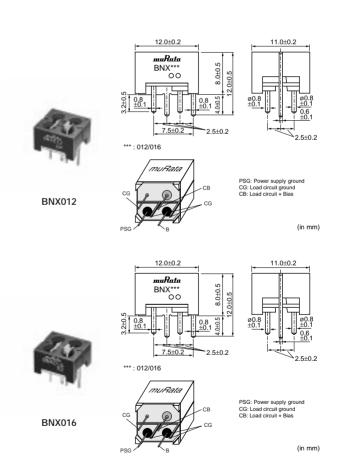
- 2. Large rated current (15A) and Low Rdc (0.8m ohm-typ.)
- 3. Low profile (height: 8.0mm except lead terminal)
- 4. Effective for impulse noise such as electrostatic discharge or spike noise.

■ Applications

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

■ Insertion Loss Characteristics





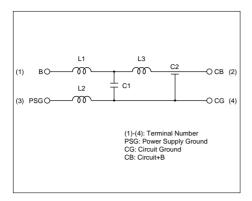
Part Number	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Rated Current (A)	Insulation Resistance (min.) (M ohm)	Insertion Loss
BNX012-01	50	125	15	500	1MHz to 1GHz:40dB min. (20 to 25 degrees C line impedance=50 ohm)
BNX016-01	25	62.5	15	50	100kHz to 1GHz:40dB min. (20 to 25 degrees C line impedance=50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

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

In operating temperatures exceeding +85°C, derating of current is necessary.

Please refer to p.143, "Derating of Rated Current".

■ Equivalent Circuit



■ Notice

Rating

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

Connecting ± power line

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

■ Insertion Loss Characteristics

