

Block Type EMIFIL BNX002-01
Reference Specification

1. Scope

This reference specification applies to Block Type EMIFIL.

2. Rating

2.1	Customer Part Number	
2.2	Murata Part Number	BNX002-01
2.3	Rated Voltage	50 V(DC)
2.4	Test Voltage	125 V(DC)
2.5	Rated Current	10 A(DC)
2.6	Insulation Resistance	100 MΩ min.
2.7	Voltage Drop	30 mV max.
2.8	Insertion Loss	1 MHz to 1 GHz : 40dB min.
		Line impedance = 50 Ω
2.9	Equivalent Circuits	See the item 4
2.10	Operating Temperature	- 30 °C ~ + 85 °C
2.11	Storage Temperature	- 40 °C ~ + 85 °C

3. Standard Testing Condition

<Unless otherwise specified>

Temperature : Ordinary Temp. 15 °C to 35 °C

Humidity : Ordinary Humidity 25 %(RH) to 85 %(RH)

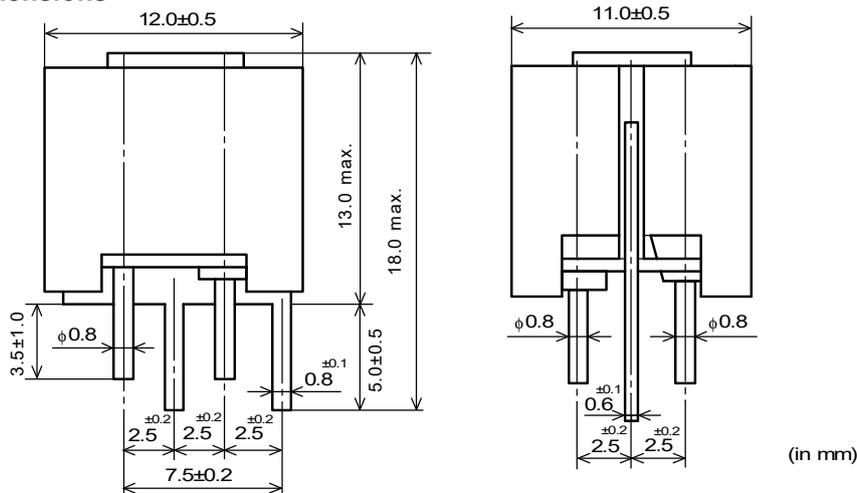
<In case of doubt>

Temperature : 20 °C ± 2 °C

Humidity : 60 %(RH) to 70 %(RH)

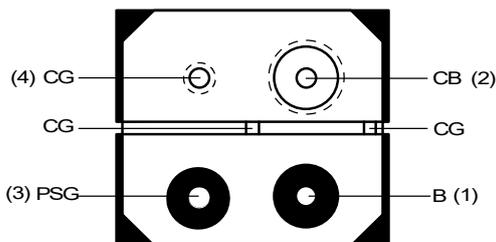
Atmospheric pressure : 86 kPa to 106 kPa

4. Style and Dimensions



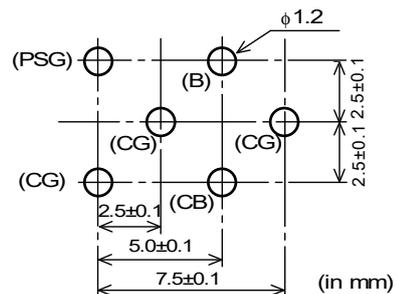
Note) Although some part of the product surface seems to be white in some cases, do not care because it is the result of waxing process for humidity resistance improvement. This wax does not make bad affection to mechanical or electrical performance, reliability of the product.

• TERMINAL LAYOUT (BOTTOM FIGURE)

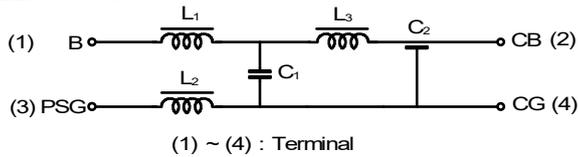


• DIMENSIONS OF INSTALLATION HOLES

(front view)



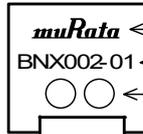
• EQUIVALENT CIRCUIT



• Unit Mass (Typical value)
3.0g

5. Marking

Filter shall be marked as follows.



← Murata mark
← Part Number
← Manufacturing Date
(Ex.) 59
5 ... 1995 (Last digit of the year)
9 ... September
(Jan. to Sept. 1 ~ 9
Oct. : O , Nov. : N , Dec. : D)

6. Electrical Performance

No.	Item	Specification	Test Method
6.1	Insulation Resistance	Meet item 2.6.	Measured at DC rated voltage between terminal (1)(2) and (3)(4). Time : 1 minute Suitable resistor : 1MΩ.
6.2	Dielectric Strength	Filter shall be no failure.	Test voltage shall be applied between terminal (1)(2) and terminal (3)(4). Time : 1 to 5 seconds. Charging current : 50 mA max.
6.3	Voltage Drop	Meet item 2.7.	Rated Current : 10 A
6.4	Insertion Loss	Meet item 2.8.	 * Method of measurement based on MIL-STD-220 Insertion Loss = 20log (E ₀ / E ₁) E ₀ : Level without FILTER (short) E ₁ : Level with FILTER

7. Mechanical Performance

No.	Item	Specification	Test Method
7.1	Appearance and Dimensions	Meet item 4.	Visual Inspection and measured with Slide Calipers.
7.2	Marking	Marking is able to be read easily.	It is inspected Visually.