

## EMI Filter

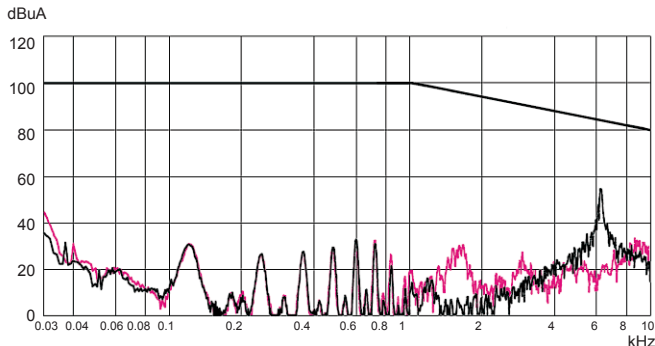


**NBF 50 - A - D**

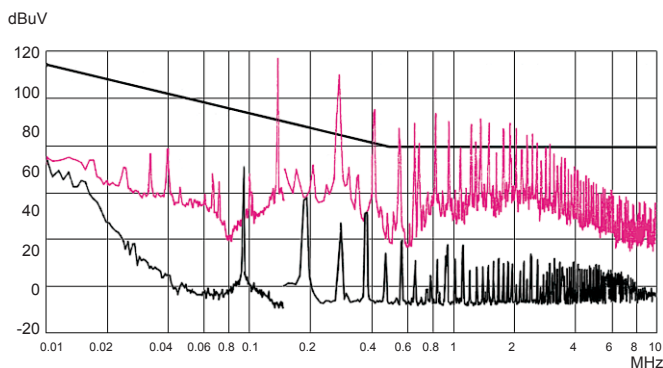
Options:

- A- pins out side of unit
- B- pins out bottom of unit
- C- pins out top of unit
- D- through hole inserts (STD threaded)
- I - M2.5 inserts

**28V<sub>in</sub> - 50 watts**  
**MIL-STD-461D, CE101-4**



 With NBF50  
 Without NBF50



- MIL-STD-461D Compliance CE101 and CE102
- Thermally Non-dissipative device
- Less than 1.0 volt drop across the NBF50
- Does Not Require External Components
- Meets Environmental Requirements of MIL-STD-810E and MIL-STD-901C
- For Use With NB15, NB30, NB45 and NB50 Series DC/DC Converters

|                                           |           |                                    |                   |
|-------------------------------------------|-----------|------------------------------------|-------------------|
| Input Voltage (maximum)                   |           | 50                                 | Vdc               |
| Rated Output Current                      |           | 5                                  | A                 |
| Isolation (Input/Output to Case)          |           | 500                                | Vdc               |
| Operating Temperature                     |           | -55 to + 100                       | °C                |
| Storage Temperature                       |           | -55 to + 125                       | °C                |
| Insulation Resistance (measured at 50Vdc) |           | 50                                 | M Ohm             |
| Weight                                    |           | 1.98                               | oz.               |
|                                           |           | 56.0                               | grams             |
| Size                                      |           | 1.75 x 1.5 x 0.38                  | inch              |
|                                           |           | 44.5 x 38.1 x 9.7                  | mm                |
| Volume                                    |           | 1.00                               | inch <sup>3</sup> |
|                                           |           | 16.5                               | cm <sup>3</sup>   |
| Material                                  | Pin       | Brass (Solder Plating)             |                   |
|                                           | Baseplate | Aluminum 5052-H32                  |                   |
|                                           | Case      | 28 Gauge Steel (cold rolled)       |                   |
| Finish                                    |           | Nickel Plating                     |                   |
| Mounting                                  | Standard  | 4-40 inserts provided in baseplate |                   |
|                                           | I Option  | M2.5 metric inserts (4 places)     |                   |
|                                           | D Option  | 0.115 DIA thru holes (4 places)    |                   |

Technical drawing of the base plate showing dimensions in inches and millimeters.

Dimensions (Inches / Millimeters):

- 1.50 / 38.1
- 1.375 / 34.93
- 1.050 / 26.67
- .450 / 11.43
- .125 / 3.18
- 0
- .30 / 7.6
- .38 / 9.7
- .125 / 3.18
- 1.625 / 41.28
- 1.75 / 44.5
- 1.375 / 34.93
- .875 / 22.23
- .625 / 15.88
- .125 / 3.18
- .50 / 12.7 MIN.
- .15 / 3.8
- .50 / 12.7 MIN.
- .040 DIA ± .005

Labels:

- 4-40 UNC-2B THRU 4 PLACES
- 1 - IN
- 2 - IN
- 3 - OUT
- 4 - OUT
- base plate
- marking surface
- A Option
- B Option
- C Option

|                    |        |   |       |          |
|--------------------|--------|---|-------|----------|
| <b>Tolerances:</b> | inches | - | x.xx  | = ±0.03  |
|                    |        |   | x.xxx | = ±0.015 |
|                    | mm     | - | x.x   | = ±0.8   |
|                    |        |   | x.xx  | = ±0.40  |

>> 18