**EN:** This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

## General purpose modules

A comprehensive range of chassis mount IEC 60320 inlet power entry modules housed in a compact and lightweight enclosure. Offers a low cost form of protection from mains borne interference in applications such as business, consumer, medical equipment, VDU's, computers, vending machines and many other general purpose applications.

- Current ratings from 1A to 10A
- Component value combinations to suit requirements
- Low cost design
- Medical versions available



### Mechanical Specifications

Manufacture: metal case with built-in power line connector according to IEC 60320 & EN 60320.

Connections: IEC 60320 - Standard plug (INPUT); faston 2x2.8 x 0.8mm or 6.3 x 0.8mm (OUTPUT); ground terminal connected to case.

FIL2470 = F.BN.AB.2470.ZG.110
FIL2680-3 = F.BN.AB.2680.ZD.000
FIL3100-1 = F.BN.AB.3100.BZ.000
FIL3100-6 = F.BN.AB.3100.FZ.000

### Electrical Specifications

Rated voltage ($V_R$): max 250V, 50/60Hz

Rated current ($I_R$): referred to room temperature = 40°C

Leakage current ($I_L$): at 220V, 50Hz, max value

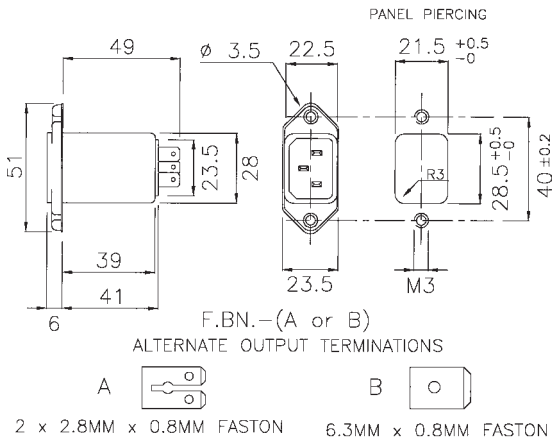
Voltage test ($2_{S.}$): line to ground 3000Vdc or 1800Vac
line to line 1700Vdc

Climatic category: HPF (25/085/21):
Temperature range: -25°C to +85°C

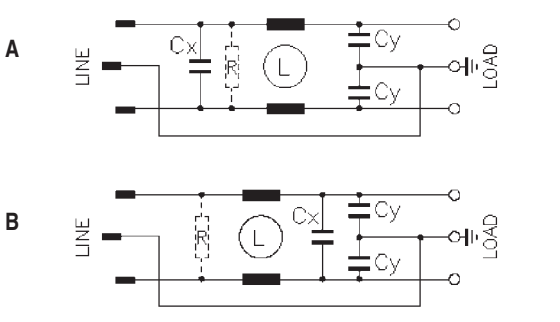
### Filter Range

| Code | $I_R$ (A) | L (mH) | Cx (µF) | Cy (pF) | $I_L$ (mA) | Circ Diag |
|---|---|---|---|---|---|---|
| F.BN.AB.2100.ZE.200 | 6 | 2x0.5 | 0.01 | 2x2700 | 2x0.25 | A |
| F.BN.AB.2470.ZA.100 | 1 | 2x2.8 | 0.047 | 2x2200 | 2x0.2 | A |
| F.BN.AB.2470.ZB.000 | 1 | 2x10 | 0.047 | 2x2500 | 2x0.23 | A |
| F.BN.AB.2470.ZD.000 | 3 | 2x2.5 | 0.047 | 2x2500 | 2x0.23 | A |
| F.BN.AB.2470.ZF.000 | 6 | 2x1 | 0.047 | 2x2500 | 2x0.23 | A |
| F.BN.AB.2470.ZG.110 | 10 | 2x0.13 | 0.047 | 2x2200 | 2x0.2 | A |
| F.BN.AB.2680.CZ.300 | 3 | 2x1 | 0.068 | 2x3300 | 2x0.3 | B |
| F.BN.AB.2680.ZB.000 | 1 | 2x10 | 0.068 | 2x2500 | 2x0.23 | A |
| F.BN.AB.2680.ZD.000 | 3 | 2x2.5 | 0.068 | 2x2500 | 2x0.23 | A |
| F.BN.AB.2680.ZF.000 | 6 | 2x1 | 0.068 | 2x2500 | 2x0.23 | A |
| F.BN.AB.3100.BZ.000 | 1 | 2x10 | 0.1 | 2x2500 | 2x0.23 | B |
| F.BN.AB.3100.DZ.000 | 3 | 2x2.5 | 0.1 | 2x2500 | 2x0.23 | B |
| F.BN.AB.3100.FZ.000 | 6 | 2x1 | 0.1 | 2x2500 | 2x0.23 | B |
| F.BN.AB.3100.HZ.420 | 3 | 2x6 | 0.1 | 2x150 | 2x0.014 | B |

### Dimensions (mm) and connections




### Circuit diagram




### Available Variants

A = Standard Version
M = Medical Version (without Y capacitors)

**X Capacitance**
2100 = 0.010uF
2470 = 0.047uF
2680 = 0.068uF
3100 = 0.1uF

$I_R$, L & CCT.

| CCT A | CCT B | VALUES |
|---|---|---|
| ZA | AZ | 1A, 2.8mH, |
| ZB | BZ | 1A, 10mH, |
| ZC | CZ | 3A, 1mH |
| ZD | DZ | 3A, 2.5mH |
| ZE | EZ | 6A, 0.5mH |
| ZF | FZ | 6A, 1mH |
| ZG | GZ | 10A, 0.13mH |
| ZH | HZ | 3A, 6mH |

**F. BN. - -. - - - - . - -. - - 0**

A = 2x2.8mm x 0.8 faston
B = 6.3mm x 0.8 faston

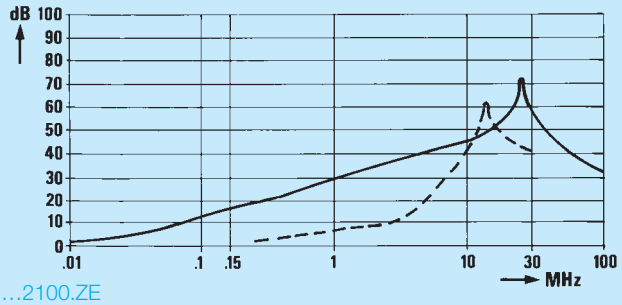
| Y Capacitance | Current Leakage |
|---|---|
| 0 = 2500pF | 2x0.23 mA |
| 1 = 2200pF | 2x0.20 mA |
| 2 = 2700pF | 2x0.25 mA |
| 3 = 3300pF | 2x0.3 mA |
| 4 = 150pF | 2x0.014 mA |

**Resistor**
0 = no resistor
1 = 1MΩ
2 = 2.2MΩ

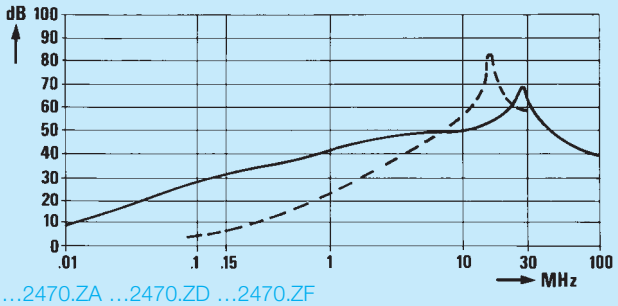
### Approvals

ENI33200 1283 22.2 N°8

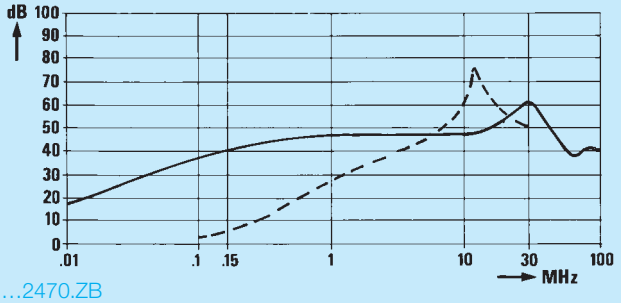
**Insertion loss** (typical): —— Asymmetrical (line to ground) – – – Symmetrical (line to line)



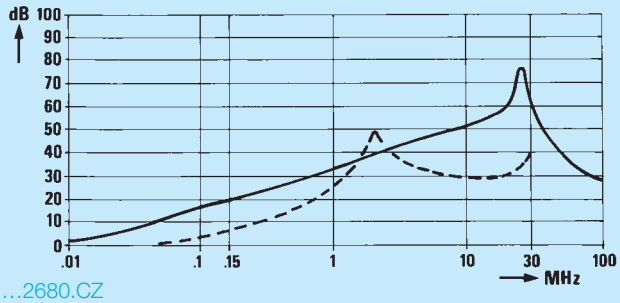

…2100.ZE



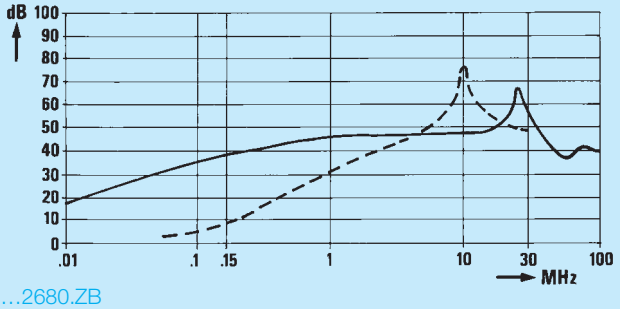

…2470.ZA …2470.ZD …2470.ZF



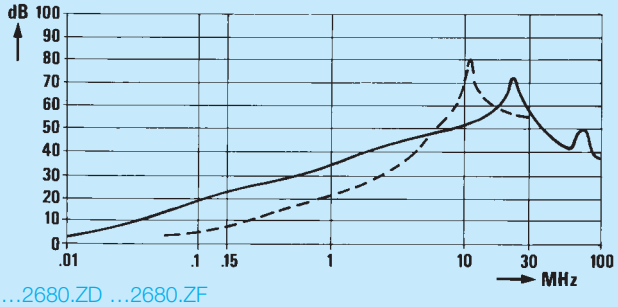

…2470.ZB



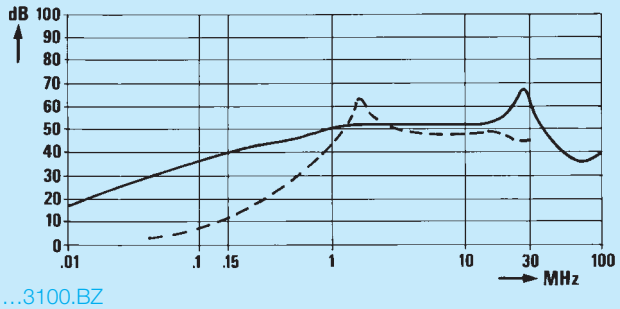

…2680.CZ



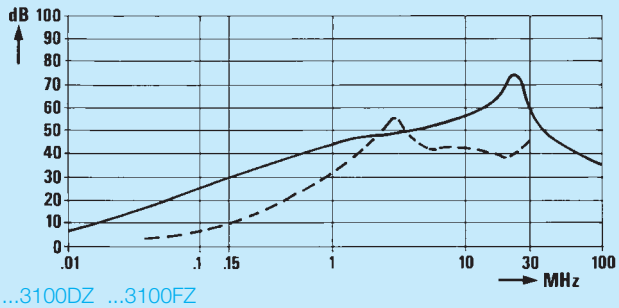

…2680.ZB



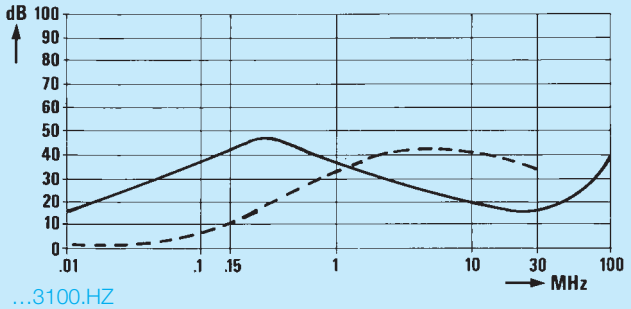

…2680.ZD …2680.ZF



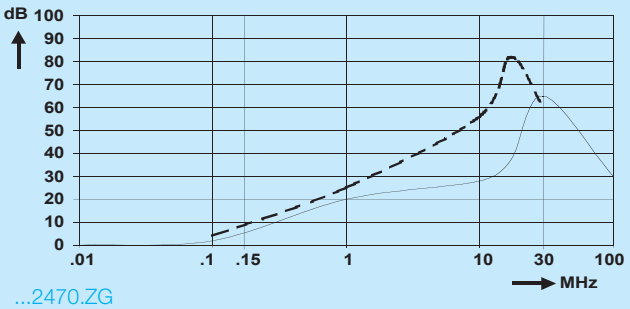

…3100.BZ




...3100DZ ...3100FZ




…3100.HZ




...2470.ZG