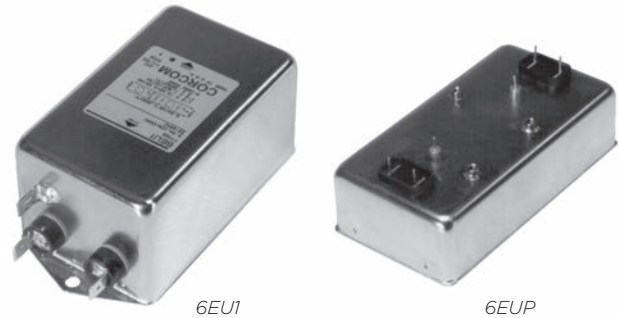


RFI Filter for Power Factor Corrected Power Supplies

U Series



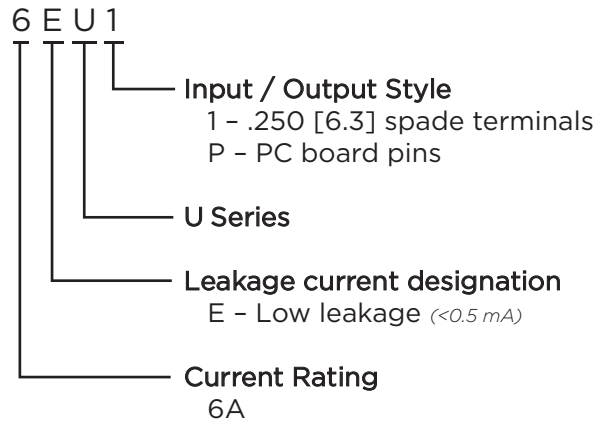
UL Recognized
CSA Certified
VDE Approved



U Series

- Designed for equipment using power factor corrected power supplies
- Offers high impedance circuit to mismatch the power supply's impedance characteristics
- Available in PC board mountable version
- All models meet low leakage current requirements

Ordering Information



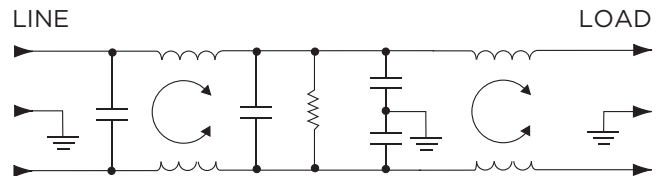
Available Part Numbers

| | |
|------|------|
| 6EUP | 6EU1 |
|------|------|

Specifications

- Maximum leakage current each Line to Ground:**
 @ 120 VAC 60 Hz: .30 mA
 @ 250 VAC 50 Hz: .50 mA
- Hipot rating (one minute):**
 Line to Ground: 2250 VAC
 Line to Line: 1450 VDC
- Rated Voltage (max):** 250 VAC
- Operating Frequency:** 50/60 Hz
- Rated Current:** 6A
- Operating Ambient Temperature Range (at rated current I_r):** -10°C to +40°C
 In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

Electrical Schematic

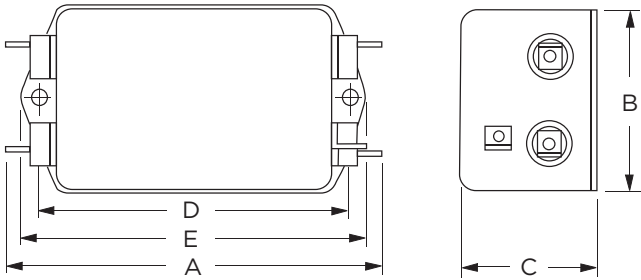


RFI Filter for Power Factor Corrected Power Supplies *(continued)*

U Series

Case Styles

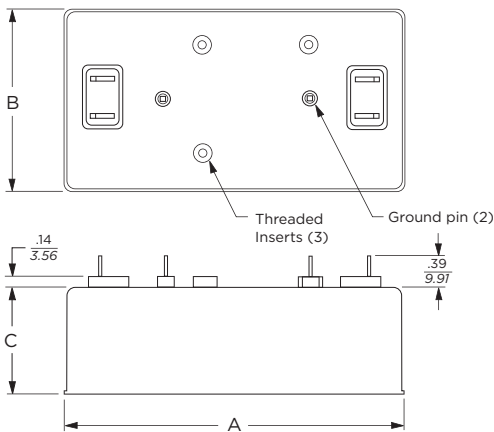
6EU1



Typical Dimensions:

- Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
- Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
- Mounting Holes (2): .188 [4.78] Dia.

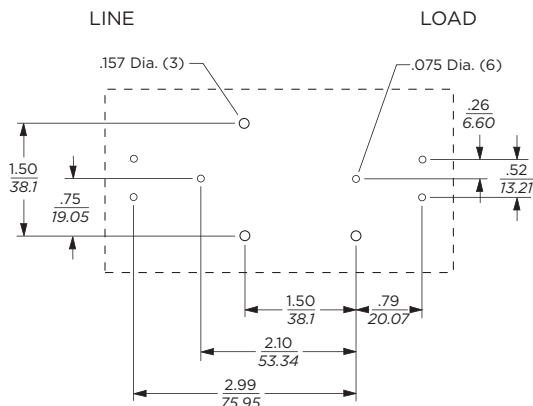
6EUP



Typical Dimensions:

- Pins (6): 0.065 [1.65] diagonal max.
- Threaded insert(3): 6-32

Recommended PC Board Layout



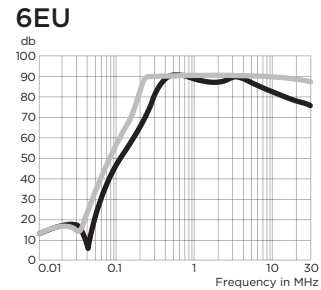
Case Dimensions

| Part No. | A (max) | B (max) | C (max) | D $\pm .015$ $\pm .38$ | E (max) |
|----------|-----------------------|----------------------|----------------------|------------------------------|-----------------------|
| 6EU1 | 4.95 125.73 | 2.27 57.66 | 1.80 45.72 | 4.060 103.12 | 4.47 113.54 |
| 6EUP | 4.70 119.4 | 2.51 66.8 | 1.22 31.0 | - | - |

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system



— Common Mode / Asymmetrical (L-G)
— Differential Mode / Symmetrical (L-L)

Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

| Current Rating | Frequency – MHz | | | | | | |
|----------------|-----------------|----|-----|----|----|----|-------|
| | .05 | .1 | .15 | .5 | 1 | 5 | 10 30 |
| 6A | 4 | 30 | 40 | 70 | 70 | 70 | 65 50 |

Differential Mode / Symmetrical (Line to Line)

| Current Rating | Frequency – MHz | | | | | | |
|----------------|-----------------|----|-----|----|----|----|-------|
| | .05 | .1 | .15 | .5 | 1 | 5 | 10 30 |
| 6A | 10 | 35 | 45 | 70 | 70 | 70 | 65 55 |