

RFI Filter for Power Factor Corrected Power Supplies

U Series



UL Recognized
CSA Certified
VDE Approved



6EU1

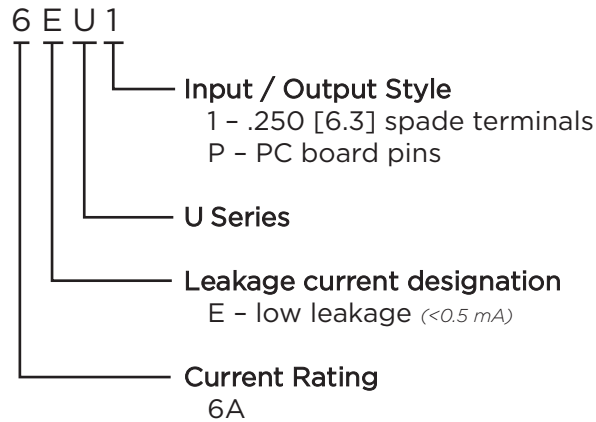


6EUP

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



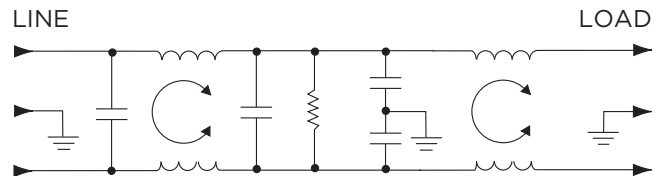
Available Part Numbers

6EUP	6EU1
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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 √(85-T_a)/45

Electrical Schematic

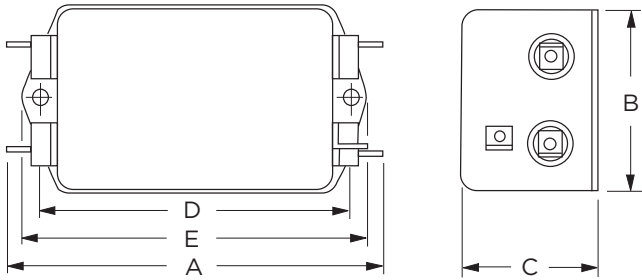


RFI Filter for Power Factor Corrected Power Supplies *(continued)*

U Series

Case Styles

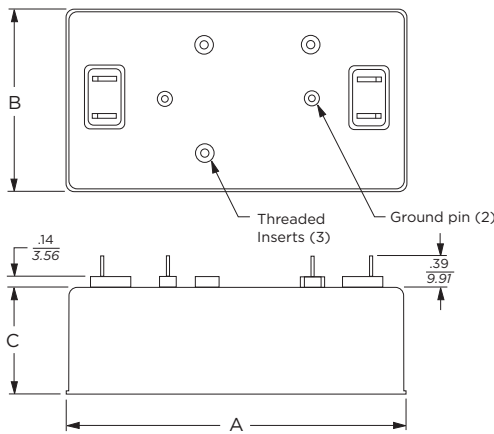
6EU1



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.

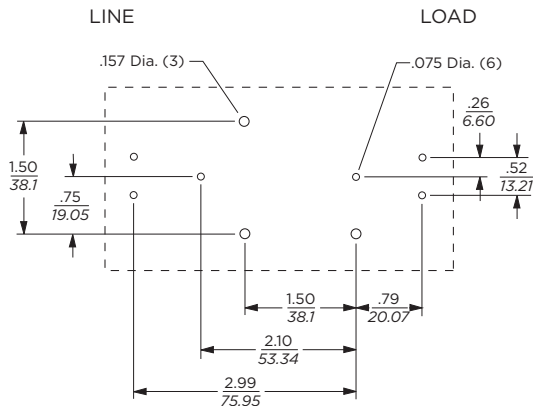
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Typical Dimensions:

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

Recommended PC Board Layout



Case Dimensions

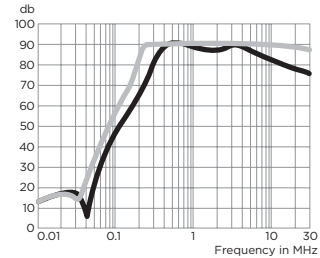
Part. No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
6EUP	4.70 119.4	2.51 66.8	1.22 31.0	—	—
6EU1	4.95 125.73	2.27 57.66	1.80 45.72	4.060 103.12	4.47 113.54

Performance Data

Typical Insertion Loss

Measured in closed 50 ohm system

6EU



- 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