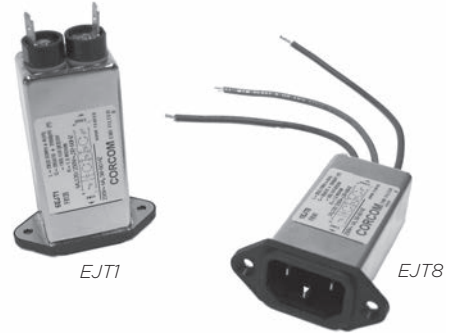


High Performance Power Inlet Filter

EJT Series



UL Recognized
CSA Certified
VDE Approved*



EJT Series

- Superior EMI filter with IEC 60320-1 inlet
- Double three element differential mode circuit attenuates noise up to 1GHz
- Up to 15A with IEC 60320-1 C14 inlet
- 20A rating with IEC 60320-1 C20 inlet
- Spade terminals or wire leads

Ordering Information



Available Part Numbers

| | |
|--------|--------|
| 1EJT1 | 1EJT8 |
| 3EJT1 | 3EJT8 |
| 6EJT1 | 6EJT8 |
| 10EJT1 | 10EJT8 |
| 15EJT1 | 15EJT8 |
| 20EJT1 | 20EJT8 |

**15A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 10A, 250VAC.
20A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 16A, 250VAC.*

Specifications

Maximum leakage current each Line to Ground:

| | | |
|------------------|--------------|------------|
| | <u>1-15A</u> | <u>20A</u> |
| @ 120 VAC 60 Hz: | .25 mA | .22 mA |
| @ 250 VAC 50 Hz: | .43 mA | .40 mA |

Hipot rating (one minute):

| | |
|-----------------|----------|
| Line to Ground: | 2250 VDC |
| Line to Line: | 1450 VDC |

Rated Voltage (max.): 250 VAC

Operating Frequency: 50/60 Hz

Rated Current: 1 to 20A*

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: $I_o = I_r \sqrt{(85-T_a)/45}$

Accessories

GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord



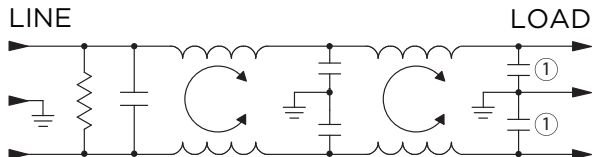
FA601: Insulating Shroud (*fits 1-15A only*)



High Performance Power Inlet Filter *(continued)*

EJT Series

Electrical Schematics



Note 1: 20A versions only

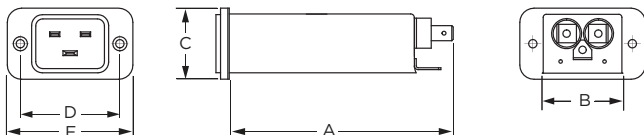
Case Styles

EJT1



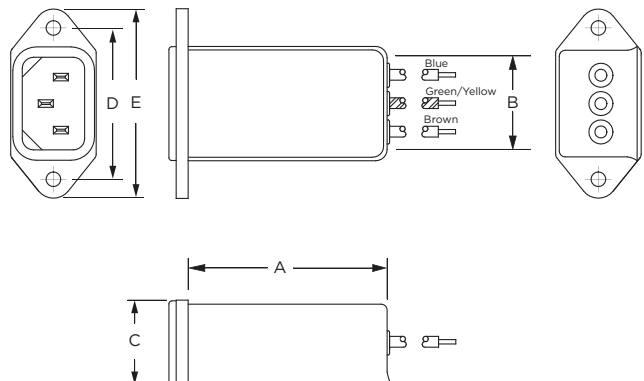
Typical Dimensions:
 Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw IEC 60320-1 C14
 Line Inlet (1): IEC 60320-1 C20
 Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

20EJT1



Typical Dimensions:
 Mounting holes (2): .126 [3.20] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw IEC 60320-1 C20
 Line Inlet (1): IEC 60320-1 C20
 Load Terminals (2): .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

EJT8



Typical Dimensions:
 Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw IEC 60320-1 C14
 Line Inlet (1): IEC 60320-1 C14
 Wire Leads: 4.0 [101.6] Min., 18AWG, UL1015

20EJT8

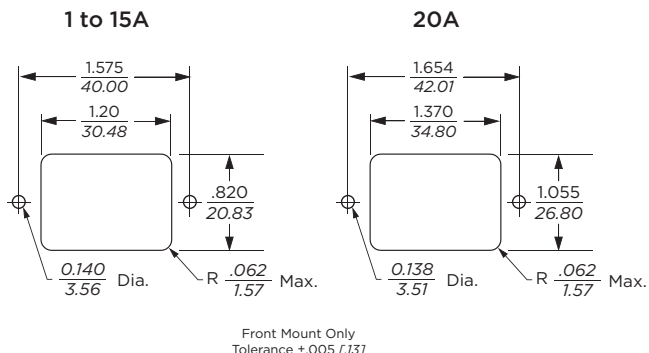


Typical Dimensions:
 Mounting holes (2): .126 [3.20] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw IEC 60320-1 C20
 Line Inlet (1): IEC 60320-1 C20
 Wire Leads: 4.0 [101.6] Min., 14AWG, UL1015

Case Dimensions

| Part No. | A (max.) | B (max.) | C (max.) | D (max.) | E (max.) |
|----------|--------------|----------------|---------------|----------------|----------------|
| EJT1 | 2.74 69.6 | 1.19 30.2 | 0.875 22.2 | 1.575 40.0 | 1.98 50.3 |
| EJT8 | 2.1 53.3 | 1.19 30.2 | 0.875 22.2 | 1.575 40.0 | 1.98 50.3 |
| 20EJT1 | 3.8 96.52 | 1.350 34.29 | 1.18 29.99 | 1.654 42.01 | 2.087 53.00 |
| 20EJT8 | 3.2 81.28 | 1.350 34.29 | 1.18 29.99 | 1.654 42.01 | 2.087 53.00 |

Recommended Panel Cutouts



High Performance Power Inlet Filter *(continued)*

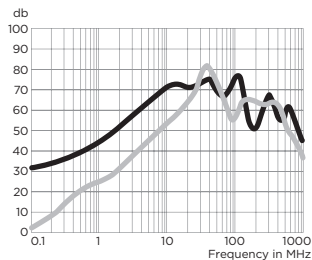
EJT Series

Performance Data

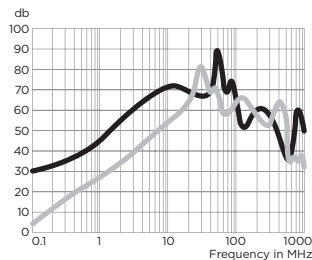
Typical Insertion Loss

Measured in closed 50 Ohm system

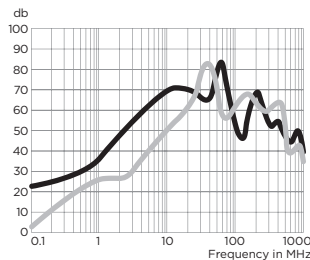
1EJT



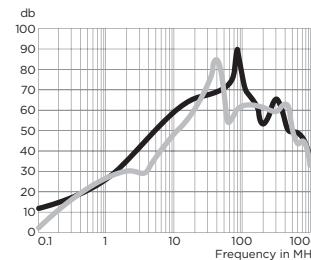
3EJT



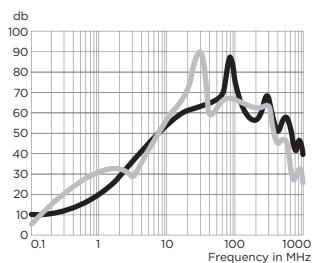
6EJT



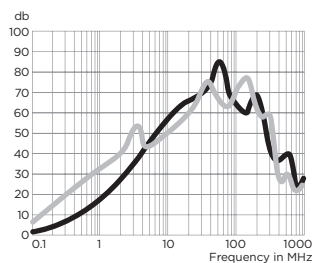
10EJT



15EJT



20EJT



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

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

| Current Rating | Frequency – MHz | | | | | | | |
|----------------|-----------------|----|----|----|----|----|-----|------|
| | .15 | .5 | 1 | 5 | 10 | 30 | 100 | 1000 |
| 1A | 27 | 33 | 40 | 59 | 65 | 65 | 61 | 14 |
| 3A | 22 | 30 | 34 | 57 | 63 | 69 | 61 | 10 |
| 6A | 13 | 21 | 27 | 51 | 60 | 65 | 59 | 14 |
| 10A | 7 | 14 | 21 | 43 | 52 | 61 | 61 | 14 |
| 15A | 4 | 10 | 15 | 38 | 48 | 63 | 63 | 14 |
| 20A | - | 8 | 15 | 42 | 50 | 60 | 58 | 14 |

Differential Mode / Symmetrical (Line to Line)

| Current Rating | Frequency – MHz | | | | | | | |
|----------------|-----------------|----|----|----|----|----|-----|------|
| | .15 | .5 | 1 | 5 | 10 | 30 | 100 | 1000 |
| 1A | 10 | 20 | 23 | 43 | 52 | 65 | 45 | 14 |
| 3A | 10 | 20 | 24 | 41 | 51 | 59 | 52 | 17 |
| 6A | 10 | 21 | 24 | 37 | 48 | 65 | 55 | 20 |
| 10A | 10 | 21 | 25 | 28 | 44 | 63 | 53 | 18 |
| 15A | 10 | 20 | 26 | 25 | 36 | 56 | 45 | 23 |
| 20A | 9 | 20 | 26 | 40 | 35 | 48 | 50 | 10 |