T Series

High Performance RFI Power Line Filters for Switching Power Supplies

Specifications

Maximum leakage current each Line to Ground:

<table>
<thead>
<tr>
<th>Series</th>
<th>ET Models</th>
<th>VT Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 6 &amp; 10A</td>
<td>@120 VAC 60 Hz: .30 mA</td>
<td>.75 mA</td>
</tr>
<tr>
<td></td>
<td>@250 VAC 50 Hz: .50 mA</td>
<td>1.2 mA</td>
</tr>
<tr>
<td>15 &amp; 20A</td>
<td>@120 VAC 60 Hz: .30 mA</td>
<td>1.2 mA</td>
</tr>
<tr>
<td></td>
<td>@250 VAC 50 Hz: .50 mA</td>
<td>2.0 mA</td>
</tr>
</tbody>
</table>

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: 3 to 20A

Operating Ambient Temperature Range (at rated current $I_r$):

- $-10^\circ$C to $+40^\circ$C

In an ambient temperature ($T_a$) higher than $+40^\circ$C, the maximum operating current ($I_o$) is calculated as follows:

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

Available Part Numbers

<table>
<thead>
<tr>
<th>ET Number</th>
<th>VT Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3ET1</td>
<td>10ET1</td>
</tr>
<tr>
<td>3ET3</td>
<td>10ET3</td>
</tr>
<tr>
<td>3ET7</td>
<td>15ET1</td>
</tr>
<tr>
<td>6ET1</td>
<td>15ET6</td>
</tr>
<tr>
<td>6ET3</td>
<td>20ET1</td>
</tr>
<tr>
<td>6ET7</td>
<td>20ET6</td>
</tr>
</tbody>
</table>

Ordering Information

- Input / Output Style
  - 1 - .250 [6.3] spade terminals
  - 3 - Wire leads
  - 6 - Threaded bolt
  - 7 - IEC inlet (line side)
  .250 [6.3] spade terminals (load side)

- Leakage current designation
  - E - Low leakage (<0.5 mA)
  - V - Standard

- Current Rating
  - 3, 6, 10, 15 or 20A

*IEC 60320-1 C14 inlet mates with C13 connector

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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T Series

**Electrical Schematics**

### 3 & 6A

3 & 6A schematic diagram showing the electrical layout.

### 10A

10A schematic diagram showing the electrical layout.

### 15 & 20A

15 & 20A schematic diagram showing the electrical layout.

**Accessories**

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

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**Case Styles**

### T1 (3, 6, 10A)

T1 case style for 3, 6, and 10A with typical dimensions:
- Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

### T1 (15 & 20A)

T1 case style for 15 & 20A with typical dimensions:
- Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

### T3

T3 case style with typical dimensions:
- Wire Leads (5): 4.0 [10.16] Min., AWG18
### T Series

#### Case Styles (continued)

**T6**

![T6 Diagram]

- Typical Dimensions:
  - Terminals (5): 8-32, Torque 18 lb-in. [2.03 N-m] max. ± 2 [±2]
  - Mounting Slots (4): 0.250 x 0.156 [6.35 x 3.96] Dia.

**T7**

![T7 Diagram]

- Typical Dimensions:
  - Load Terminals (2): 0.250 [6.3] with 0.07 [1.8] Dia. hole
  - Ground Terminal (1): 0.250 [6.3] with 0.07 x 0.16 [1.8 x 3.8] slot
  - Line Inlet (1): IEC 60320-1 C14
  - Tapped Inserts (2): 6-32 x 1/4

**Case Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A (max)</th>
<th>B (max)</th>
<th>C (max)</th>
<th>D ± 0.015</th>
<th>E (max)</th>
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<tbody>
<tr>
<td>3ET1, 6ET1</td>
<td>3.56</td>
<td>2.15</td>
<td>1.81</td>
<td>2.938</td>
<td>3.38</td>
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<td>3ET3, 6ET3</td>
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<td>1.81</td>
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<td>3ET7, 6ET7</td>
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<td>1.78</td>
<td>1.575</td>
<td>0.63</td>
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<td>10ET1, 10VT1</td>
<td>4.69</td>
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<td>15ET1, 15VT1, 20ET1, 20VT1</td>
<td>5.45</td>
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<td>2.18</td>
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<td>5.95</td>
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<td>3.5</td>
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</table>

- Tolerance ± .005 [0.13]

**Recommended Panel Cutout**

![Recommended Panel Cutout Diagram]

- Diameter: 5.96
- Diameter: 3.98
- Diameter: 2.35
- Diameter: 1.91
- Diameter: 1.57
- Diameter: 1.295
- Diameter: 0.57
- Diameter: 0.41
- Diameter: 0.26

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High Performance RFI Filters for Switching Power Supplies (continued)

T Series

Performance Data

Typical Insertion Loss
Measured in closed 50 Ohm system

Minimum Insertion Loss
Measured in closed 50 Ohm system

<table>
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<tr>
<th>Current Rating</th>
<th>.01</th>
<th>.03</th>
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<th>.5</th>
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Common Mode / Asymmetrical (Line to Ground)

Differential Mode / Symmetrical (Line to Line)