T Series

High Performance RFI Power Line Filters for Switching Power Supplies

T Series

• Superior common-mode and premium differential-mode attenuation
• Smaller package sizes than the EP Series
• Size and cost-effective
• ET models can help meet very low leakage current requirements

Specifications

Maximum leakage current each Line to Ground:

<table>
<thead>
<tr>
<th>Type</th>
<th>ET Models</th>
<th>VT Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 6 &amp; 10A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
@120 VAC 60 Hz: | .30 mA    | .75 mA    |
@250 VAC 50 Hz: | .50 mA    | 1.2 mA    |
| 15 & 20A |           |           |
@120 VAC 60 Hz: | .30 mA    | 1.2 mA    |
@250 VAC 50 Hz: | .50 mA    | 2.0 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: 3 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: $I_o = I_r \sqrt{(85-Ta)/45}$

Available Part Numbers

<table>
<thead>
<tr>
<th>Type</th>
<th>3ET1</th>
<th>10ET1</th>
<th>10VT1</th>
</tr>
</thead>
<tbody>
<tr>
<td>3ET3</td>
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<td>10ET3</td>
<td>10VT3</td>
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<tr>
<td>3ET7</td>
<td>15ET1</td>
<td></td>
<td>15VT1</td>
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<tr>
<td>6ET1</td>
<td>15ET6</td>
<td>15VT6</td>
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<tr>
<td>6ET3</td>
<td>20ET1</td>
<td>20VT1</td>
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</tr>
<tr>
<td>6ET7</td>
<td>20ET6</td>
<td>20VT6</td>
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</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

UL Recognized
CSA Certified
VDE Approved
T Series

**Electrical Schematics**

**3 & 6A**

**10A**

**15 & 20A**

**Accessories**

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

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**Case Styles**

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

Typical Dimensions:
- Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

**T1 (15 & 20A)**

Typical Dimensions:
- Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

**T3**

Typical Dimensions:
- Wire Leads (5): 4.0 [10.1] Min., AWG18


**T Series**

**Case Styles (continued)**

**T6**

![T6 Diagram]

Typical Dimensions:
- Terminals (5):
- Mounting Slots (4):

**T7**

![T7 Diagram]

Typical Dimensions:
- Load Terminals (2):
- Ground Terminal (1):
- Line Inlet (1):
- Tapped Inserts (2):

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**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>
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<td>2.15</td>
<td>1.81</td>
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<td>3ET7, 6ET7</td>
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<td>2.27</td>
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<td>15ET1, 15VT1, 20ET1, 20VT1</td>
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<td>2.18</td>
<td>3.5</td>
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</table>

Recommended Panel Cutout

![Recommended Panel Cutout Diagram]

Tolerance ± .005 [0.13]

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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.

For email, phone or live chat, please go to [te.com/help](http://te.com/help) or [corcom.com](http://corcom.com).
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

Common Mode / Asymmetrical (Line to Ground)

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<thead>
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<th>.05</th>
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<th>.5</th>
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Differential Mode / Symmetrical (Line to Line)

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Mouser Electronics

Authorized Distributor

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TE Connectivity:
6ET7 6ET1 20VT1 20VT6 15VT1 15VT6 3ET7 3ET1 3ET3 10ET1 10ET3 20ET1 20ET6 15ET6 15ET1
6ET3 10VT1 10VT3