Current Sense Transformers
Switch Mode Applications
20 A Current Sense Transformers

Applications

20 A current sense transformers are designed to be used in switch-mode applications such as:

- Power supplies
- Motor control
- Electronic lighting ballasts

Features

- 50, 100, 200, 300 & 750 turn versions
- Primary current rating: 20A max
- 20kHz - 200kHz frequency range
- Center tapped versions are available
- Fully encapsulated

Standards

- RoHS
- Reach
- Plastic materials meet UL94 V-0 requirements
## Electrical Characteristics (Ambient Temperature = 25°C)

<table>
<thead>
<tr>
<th>P/N</th>
<th>Number of turns ±1 turn</th>
<th>Secondary Inductance Pins 1 &amp; 3 mh Min</th>
<th>Secondary DC Resistance Pins 1 &amp; 3 Ω Max</th>
<th>RT to produce 1V_OUT/1A_IN Ω</th>
<th>Product VSEC*TON VμS Max</th>
<th>Operating Temperature Range</th>
<th>Storage Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCTF10-50</td>
<td>50</td>
<td>5</td>
<td>0.2</td>
<td>50</td>
<td>175</td>
<td>-40°C to +85°C</td>
<td>-40°C to +125°C</td>
</tr>
<tr>
<td>SCTF10-100</td>
<td>100</td>
<td>20</td>
<td>1.4</td>
<td>100</td>
<td>350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCTF10-200</td>
<td>200</td>
<td>80</td>
<td>2.8</td>
<td>200</td>
<td>700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCTF10-300</td>
<td>300</td>
<td>180</td>
<td>8.6</td>
<td>300</td>
<td>1050</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCTF10-750</td>
<td>750</td>
<td>2350</td>
<td>75</td>
<td>750</td>
<td>2625</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCTF10-100T</td>
<td>100 CT</td>
<td>20</td>
<td>1.4</td>
<td>100</td>
<td>350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCTF10-200T</td>
<td>200 CT</td>
<td>80</td>
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<td>700</td>
<td></td>
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</tr>
<tr>
<td>SCTF10-300T</td>
<td>300 CT</td>
<td>180</td>
<td>8.6</td>
<td>300</td>
<td>1050</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Arrow designates direction of primary current in phase with pin 1 (identified by * on the box)
- Isolation Pri to Sec: 2.5 KVac min
- Pin 2 is fitted only on center tapped versions

## Mechanical Characteristics

- Weight: 5g
- Unless otherwise stated, all dimensions in mm ± 0.25
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Our vision
In response to the need to take into account societal issues, we want to make a decisive contribution through the creation of new industrial solutions and be the European leader in B2B industrial electronics.

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