Cost optimized pulse transformers for THT mounting, short rise time

**Description**
- High insulation rating (>2.2 kVAC) between the primary and the secondary windings.
- Small coupling capacitances between primary and secondary windings limit transient feedback from the power supply side to the control electronics.
- Cost optimized design.
- The defined partial discharge voltage guarantees an effectively unlimited serviceable live.

**Standards**
- VDE 110b

**Applications**
- Galvanic separation of drive- and power-circuit
- Mainly used in ignition circuits with Thyristors, Triacs, power transistors and IGBT’s
- DC/DC converters
- Line coupling transformers in high speed data transmission

**Technical Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>up to 500 VAC</td>
</tr>
<tr>
<td>Voltage Time Integral</td>
<td>150 - 300 Vµs</td>
</tr>
<tr>
<td>Pulse Rise Time</td>
<td>0.1 - 0.3 µs</td>
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<tr>
<td>Turns Ratio</td>
<td>1:1, 2:1, 3:1, 1:1:1</td>
</tr>
<tr>
<td>Terminal technic</td>
<td>THT</td>
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<tr>
<td>Weight</td>
<td>7 g</td>
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</table>

**Dimension**

- **Case 05-7**
  - Case
    - max. 17.5
    - max. 12.5
    - max. 18.5
  - Terminal
    - max. 15
    - min. 5
  - 1) Prim.

- **Case 05-8**
  - Case
    - max. 17.5
    - max. 11.5
    - max. 18.5
  - Terminal
    - max. 5
    - 1) Prim.
    - min. 5
  - 1) Prim.

**All Variants**

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<thead>
<tr>
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<tbody>
<tr>
<td>1:1</td>
<td>0.2</td>
<td>1.0</td>
<td>500</td>
<td>3.2</td>
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<td>50 [pcs.]</td>
<td>05-7</td>
<td>ILR-11-0001</td>
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<td>50 [pcs.]</td>
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<td>ILR-10-0001</td>
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<td>50 [pcs.]</td>
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<td>ILR-11-0002</td>
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<tr>
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<td>7 g</td>
<td>50 [pcs.]</td>
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</tbody>
</table>


The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.