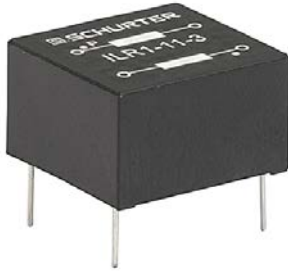


Cost optimized pulse transformers for THT mounting, short rise time



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 life

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

Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

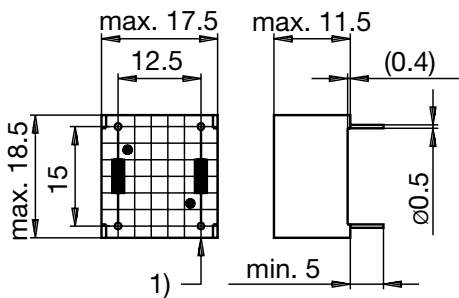
Technical Data

| | |
|-----------------------|----------------------|
| Rated voltage | up to 500 VAC |
| Voltage Time Integral | 150 - 300 Vμs |
| Pulse Rise Time | 0.1 - 0.3 μs |
| Turns Ratio | 1:1, 2:1, 3:1, 1:1:1 |
| Terminal technic | THT |
| Weight | 7 g |
| Material: Housing | UL 94V-0 |
| Sealing Compound | UL 94V-0 |

| | |
|---------------------------|-------------------------------|
| Climatic Category | 25/100/21 acc. to IEC 60068-1 |
| Allowable Operation Temp. | -25 °C to 70 °C |

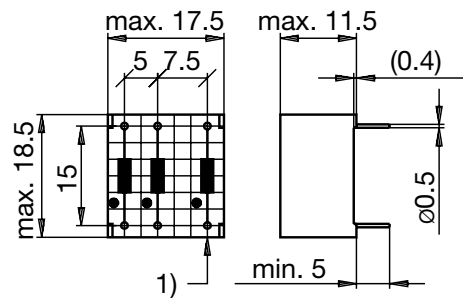
Dimension

Case 05-7



1) Prim.

Case 05-8



1) Prim.

All Variants

| Turns Ratio | T_r [μs] | I_{ign} [A] | U_{VAC} [V] | U_{isol} [kV] | $U_s \times T_w$ [Vμs] | L_s [mH] | R_p [Ω] | R_s [Ω] | C_c [pF] | P_m [W] | Weight [g] | Packing unit [pcs.] | Housing | Order Number |
|-------------|------------|---------------|---------------|-----------------|------------------------|------------|-----------|-----------|------------|-----------|------------|---------------------|---------|--------------|
| 1:1 | 0.2 | 1.0 | 500 | 3.2 | 300 | 2.5 | 0.7 | 0.7 | 60 | 0.5 | 7 g | 50 | 05-7 | ILR-11-0001 |
| 1:1:1 | 0.1 | 0.25 | 500 | 3.2 | 150 | 0.5 | 0.3 | 0.3 | 30 | 0.5 | 7 g | 50 | 05-8 | ILR-10-0001 |
| 2:1 | 0.3 | 1.0 | 500 | 3.2 | 200 | 2.5 | 1 | 0.3 | 50 | 0.5 | 7 g | 50 | 05-7 | ILR-11-0002 |
| 3:1 | 0.3 | 1.0 | 500 | 3.2 | 200 | 5.0 | 1.2 | 0.3 | 40 | 0.5 | 7 g | 50 | 05-7 | ILR-11-0003 |

Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>