

Cost optimized pulse transformers for THT mounting



See below:

Approvals and Compliances

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

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

References

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Approvals](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

Rated voltage	up to 500 VAC
Voltage Time Integral	200 - 500 Vμs
Pulse Rise Time	0.5 - 1.5 μs
Turns Ratio	1:1, 1:1:1, 3:1:1
Terminal Type	THT
Weight	7 - 15 g
Material	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


Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.




Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

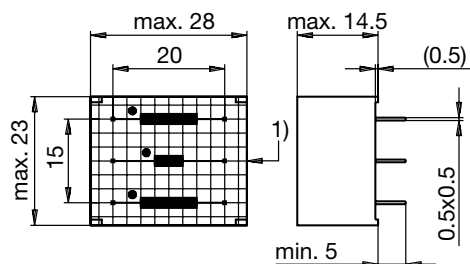
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

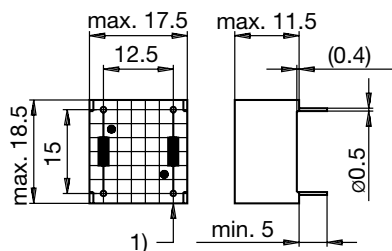
Dimension [mm]

Case 14-8



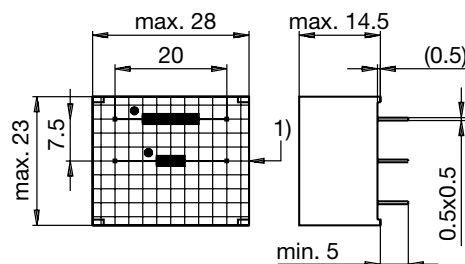
1) Prim.

Case 05-7

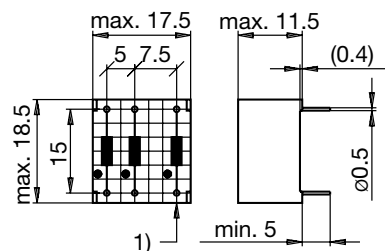


1) Prim.

Case 14-9



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	1	0.1	500	3.5	500	8.0	1.2	1.2	10	0.5	7g	50	05-7	IL-11-0001
1:1	1	0.25	500	3.5	250	2.5	0.6	0.6	8	0.5	7g	50	05-7	IL-11-0002
1:1	1	0.25	380	4.0	300	3.0	0.6	0.6	8	1.1	15g	50	14-9	IL-21-0001
1:1:1	0.5	0.1	380	3.5	250	2.5	0.6	0.6	10	0.5	7g	50	05-8	IL-10-0001
1:1:1	1	0.25	380	3.5	200	1.5	0.4	0.4	8	0.5	7g	50	05-8	IL-10-0003
1:1:1	1.5	0.25	380	4.0	300	3.0	0.6	0.6	8	1.1	15g	50	14-8	IL-20-0001
3:1:1	0.7	0.1	380	3.5	200	16.5	2.3	0.5	10	0.5	7g	50	05-8	IL-10-0002

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

Mouser Electronics

Authorized Distributor

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[IL-10-0001](#) [IL-10-0002](#) [IL-10-0003](#) [IL-11-0002](#) [IL-20-0001](#) [IL-21-0001](#) [ILR-10-0001](#) [ILR-11-0001](#) [ILR-11-0002](#)
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