

Cost optimized pulse transformers for THT mounting, short rise time



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

Weblinks

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

Technical Data

Rated voltage	up to 500VAC
Voltage Time Integral	150 - 300Vμs
Pulse Rise Time	0.1 - 0.3μs
Turns Ratio	1:1, 2:1, 3:1, 1:1:1
Terminal Type	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

Approvals and Compliances

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




Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

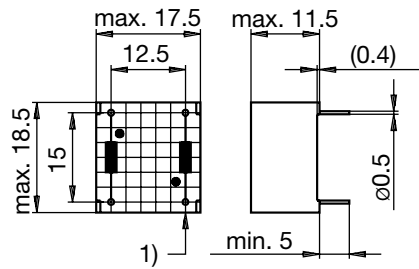
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	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.

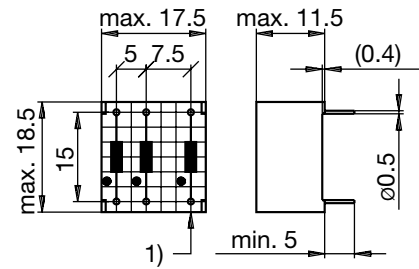
Dimension [mm]

Case 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 x T _w [Vμs]	L _s [mH]	R _p [Ω]	R _s [Ω]	C _C [pF]	P _m [W]	Weight [g]	Packing unit [pcs.]	Housings	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

Most Popular.

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