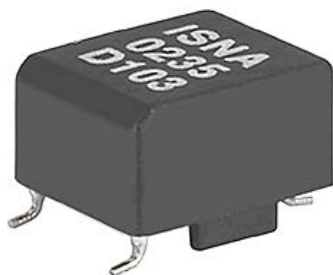


Pulse transformers for SMD mounting



Description

- High insulation rating (>3.2 kVAC) between the primary and the secondary windings
- High insulation rating up to 500V between the secondary windings
- Small coupling capacitances between primary and secondary windings limit transient feedback from the power supply side to the control electronics
- 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](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

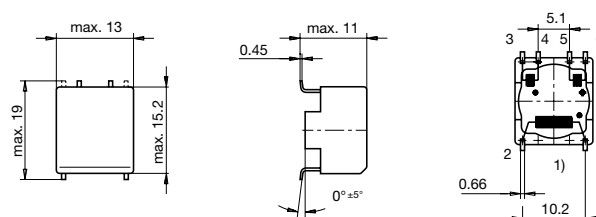
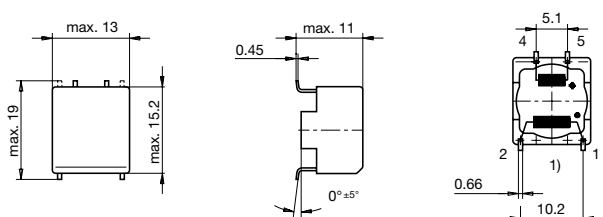
Rated voltage	up to 600 VAC
Voltage Time Integral	150 - 400 Vμs
Pulse Rise Time	0.05 - 1.5 μs
Turns Ratio	1:1, 2:1, 1:1:1
Terminal Type	SMD
Weight	3 - 10 g
Material: Housing	UL 94V-0
Sealing Compound	UL 94V-0

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

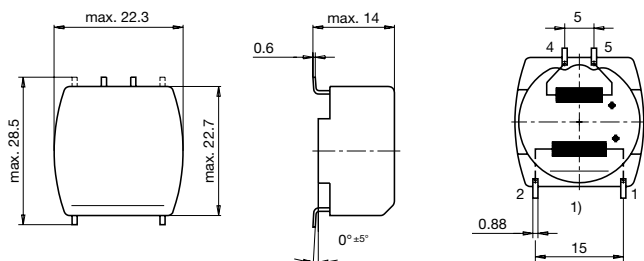
Dimension

Case 35-3S

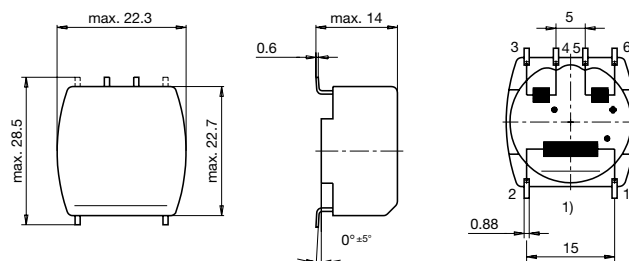
Case 35-4S



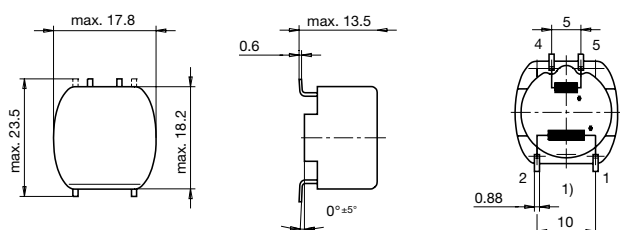
Case 39-3S



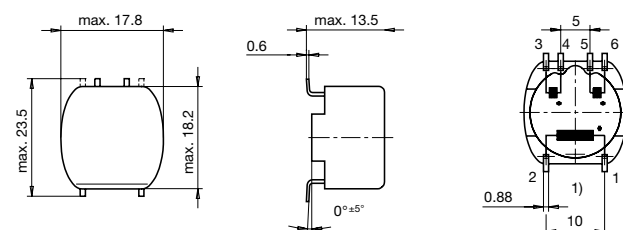
Case 39-4S



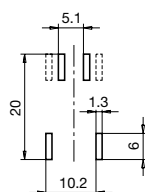
Case 49-3S



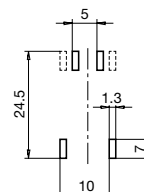
Case 49-4S



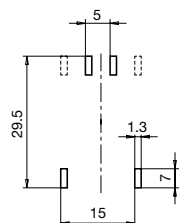
1) Prim.

Possible solder land pattern for SMD mounting
Case 35S

1) Prim.

Possible solder land pattern for SMD mounting
Case 49S

Possible solder land pattern for SMD mounting
Case 39S



All Variants

Turns Ratio	T_r [μ s]	I_{ign} [A]	U_{isol} [kV]	$U_s \times T_w$ [V μ s]	L_s [mH]	R_p [Ω]	R_s [Ω]	C_c [pF]	Weight [g]	Packing unit [pcs.]	Housings	Order Number
1:1	0.05	0.1	3.2	200	2.8	1.5	1	43/80	8 g	170	35-3S	ISRA-0235-D103
1:1	1	0.17	3.5	400	2.2	0.4	0.4	20	10 g	140	39-3S	ISNA-0239-D202
1:1	0.05	0.1	3.2	300	3.5	0.7	0.7	90	9 g	45	49-3S	ISRA-0249-D104
1:1	1	0.1	3.5	300	3.5	0.7	0.7	20	6 g	45	49-3S	ISNA-0249-D104
1:1:1	0.05	0.1	3.2	150	1.1	1	0.5	40	8 g	480	35-4S	ISRF-0235-D101
1:1:1	0.9	0.1	3.5	150	1.1	0.5	0.5	10	8 g	160	35-4S	ISNF-0135-D101
1:1:1	0.5	0.5	3.2	350	1.6	0.4	0.4	90	10 g	140	39-4S	ISRF-0239-D502
1:1:1	1.5	0.17	3.5	350	1.6	0.4	0.4	20	10 g	140	39-4S	ISNF-0239-D202
1:1:1	0.05	0.1	3.2	250	1.2	0.4	0.5	70	6 g	45	49-4S	ISRF-0249-D101
1:1:1	1	0.1	3.5	250	1.4	0.5	0.5	20	9 g	45	49-4S	ISNF-0249-D101
2:1	0.5	0.5	3.2	350	1.8	0.8	0.4	90	9 g	140	39-3S	ISRB-0239-D502
2:1	1.5	0.17	3.5	350	1.8	0.8	0.4	20	9 g	140	39-3S	ISNB-0239-D202
2:1	0.05	0.1	3.2	250	1.4	1	0.5	70	9 g	45	49-3S	ISRB-0249-D101
2:1	1	0.1	3.5	250	1.6	1	0.5	20	9 g	45	49-3S	ISNB-0249-D101

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