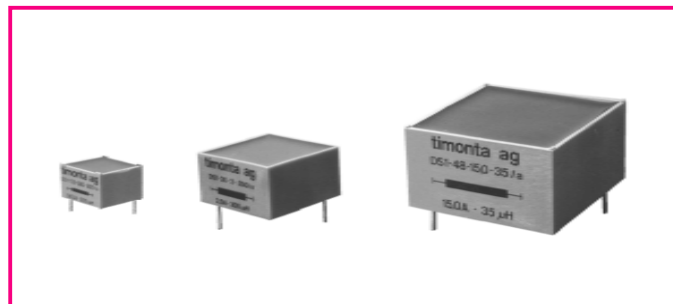


Storage Chokes



DS Series, in encapsulated version

Nominal current: 0.5 - 6 A @ ϑ_a 70°C
Nominal inductance: 35 - 1000 μ H/ tol. \pm 15%
Max. working voltage: 600 VDC
Application range: up to 1 MHz
Isolation voltage: 2 kV eff. / wdg.-ambient
Climatic category: 40/125/21 acc. to IEC 60068-1
Plastic case UL 94 V-0
Potting resin: UL 94 V-0



Application

Storage chokes, wound on powdered MPP core, specially qualify for use as storage of energy in switched power supplies (switching mode regulators). Switched power supplies allow small size with high efficiency and stabilized output voltage. Most important features of this line of chokes are the following:

- reduced magnetic reversal
- small size
- constant inductance at high alternating field modulation and large DC magnetization.

Execution

Storage chokes of series DS are encapsulated into a plastic cases.

Technical Data

Type	I_N (1) [A]	L_N (2) [μ H]	R_{cu} (3) [m Ω]	$\sim f_{Res}$ [MHz]	$\frac{\Delta L}{L}$ [%] at I_N	Cases L x D x H [mm]	Grid l x b [mm]	Connection pins \varnothing [mm] t [mm]	
DS1-17.5-0.5-800/a	0.5	800	700	2	< 15	17.5 x 16.5 x 10.5	15.0 x 12.5	0.5	8
DS1-17.5-0.63-500/a	0.63	500	500	2.5	< 15	17.5 x 16.5 x 10.5	15.0 x 12.5	0.5	8
DS1-17.5-1.0-200/a	1.0	200	180	5	< 15	17.5 x 16.5 x 10.5	15.0 x 12.5	0.5	8
DS1-17.5-1.4-100/a	1.4	100	80	6.5	< 20	17.5 x 16.5 x 10.5	15.0 x 12.5	0.5	8
DS1-17.5-3.0-35/a	3.0	35	26	11	< 20	17.5 x 16.5 x 10.5	15.0 x 12.5	0.5	8
DS1-20-0.63-1000/a	0.63	1000	700	1.2	< 15	20.0 x 20.0 x 15.0	15.0 x 15.0	0.5	8
DS1-20-1.4-200/a	1.4	200	175	4	< 15	20.0 x 20.0 x 15.0	15.0 x 15.0	0.5	8
DS1-20-3.15-40/a	3.15	40	26	10	< 15	20.0 x 20.0 x 15.0	15.0 x 15.0	0.7	8
DS1-25-1.4-500/a	1.4	500	200	1	< 20	25.0 x 25.0 x 15.0	20.0 x 20.0	1	8
DS1-25-2.0-200/a	2.0	200	100	3.5	< 20	25.0 x 25.0 x 15.0	20.0 x 20.0	1	8
DS1-25-3.15-100/a	3.15	100	40	5.7	< 20	25.0 x 25.0 x 15.0	20.0 x 20.0	1	8
DS1-30-3.15-150/a	3.15	150	55	4.5	< 15	30.0 x 30.0 x 15.0	22.5 x 22.5	1	8
DS1-30-4-100/a	4.0	100	36	6	< 20	30.0 x 30.0 x 15.0	22.5 x 22.5	1	8
DS1-40-4.0-200/a	4.0	200	55	3	< 20	40.0 x 40.0 x 20.0	32.5 x 32.5	1.5	8
DS1-40-6.0-100/a	6.0	100	26	4.5	< 20	40.0 x 40.0 x 20.0	32.5 x 32.5	1.5	8
DS1-48-3.15-1000/a	3.15	1000	160	1	< 20	48.0 x 48.0 x 25.0	37.5 x 37.5	1.5	8
DS1-48-4-500/a	4.0	500	80	1.5	< 20	48.0 x 48.0 x 25.0	37.5 x 37.5	1.5	8

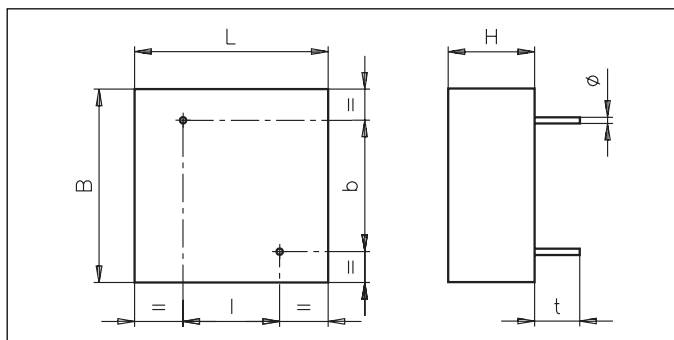
(1) @ ϑ_a 70°C; current derating over 70°C: $I = I_N \times \sqrt{(125-\vartheta_a)/55}$

(2) Nominal inductance measured according to EN 138100, see introduction of this catalog, paragraph 3.4

(3) Resistance @ ϑ_a 25°C

All types are also available in open version, DS01 with relative mounting accessories see page 23.

Mechanical dimensions DS1



Application Switch-mode

