Storage Chokes

DSF Series, flat housing

Nominal current: 0.45 - 6.3 A @ ϑ a 70°C Nominal inductance: 11 - 3700 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

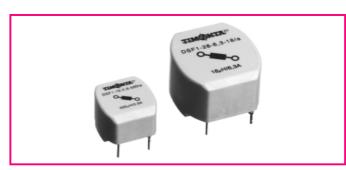
This range of chokes enables horizontal mounting, thus reducing the height of mounted circuit. Finest quality core materials allow the highest electrical performance with minimum component volume. Good design with easy assembly allows good cost/performance ratio.

This type of choke is essential in the field of power electronics, e.g. switching power supplies, chopper amplifiers, DC drives and stepper motor controls.

Technical Data

Туре	l _N (1) [A]	L _N (2) [μΗ]	R _{cu} (3) [mΩ]	~ f _{Res} [MHz]	Case
DSF1-18-0.6-500/a	0.6	500	360	2.5	04-1
DSF1-18-1.2-125/a	1.2	125	90	6.5	04-1
DSF1-18-2.0-45/a	2.0	45	32	12	04-1
DSF1-18-4.0-11/a	4.0	11	8	32	04-1
DSF1-28-0.45-3700/a	0.45	3700	1900	0.6	15-1
DSF1-28-0.63-1800/a	0.63	1800	900	1	15-1
DSF1-28-1.0-750/a	1.0	750	360	1.8	15-1
DSF1-28-1.8-230/a	1.8	230	125	3.5	15-1
DSF1-28-3.15-75/a	3.15	75	45	7	15-1
DSF1-28-4.5-37/a	4.5	37	20	10	15-1
DSF1-28-6.3-18/a	6.3	18	10	18	15-1

- (1) @ $\vartheta a 70^{\circ}C$; current derating over $70^{\circ}C$: $I = I_N \times \sqrt{(125 \cdot \vartheta a)/55}$
- (2) Nominal inductance measured according to EN 138100, see introduction of this catalog, paragraph 3.4
- (3) Resistance @ ∂a 25°C



- **DSF** Storage chokes are used as energy stores in switch mode power supplies. Principle features:
 - reduced magnetic reversal
 - constant inductance at high alternating field modulation and high DC magnetisation.

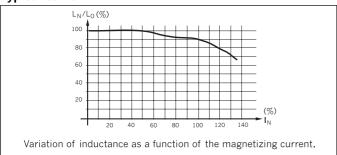
Environmental Ratings:

The **DSF chokes** can only be used with high frequency alternating current or with HF-modulated direct current up to 1 MHz, under consideration of their self heating (I_N and DI at I_0) and of the ambient temperature (ϑ a).

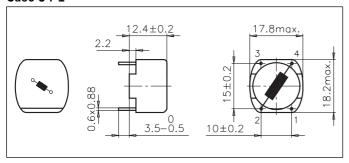
Typical

SMD-version upon request.

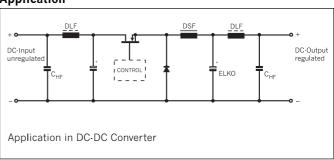
Typical curve



Case 04-1



Application



Case 15-1

