

Excellent Integrated System Limited

Stocking Distributor

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[DSF-18-0002](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

Storage Choke, flat design



Description

- Storage choke
- THT-terminals
- Inductor horizontally positioned in housing
- Constant inductance at high alternating field modulation and large DC magnetization
- Reduced magnetic reversal
- SMD version on request

Standards

- EN 60938

Applications

- Storage of energy in switched power supplies
- Switch-mode
- Chopper amplifiers
- DC drives and stepper motor controls

Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [SPICE Library](#)

Technical Data

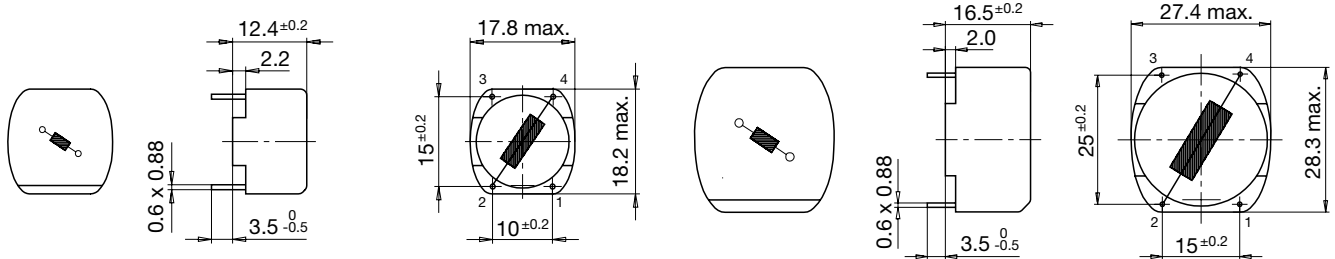
Rated voltage	up to 600VDC
Rated Current	0.45 - 4.5A @ Ta 70 °C
Rated inductance	0.011 - 3.7mH, Tol. ±15%
Power Operating Frequency	up to 1 MHz
Terminal Type	THT
Weight	7 - 18g
Material: Housing	UL 94V-0
Sealing Compound	UL 94V-0

Isolation Voltage	2 kV eff., winding to ambient
Climatic Category	40/125/21 acc. to IEC 60068-1
Allowable Operation Temp.	-40 °C to 125 °C

Dimension

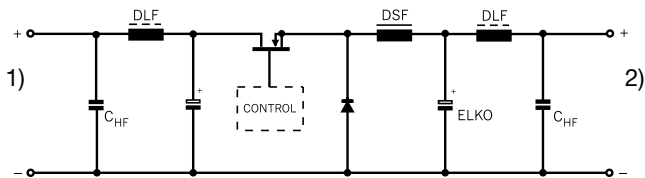
Case 04-1

Case 15-1

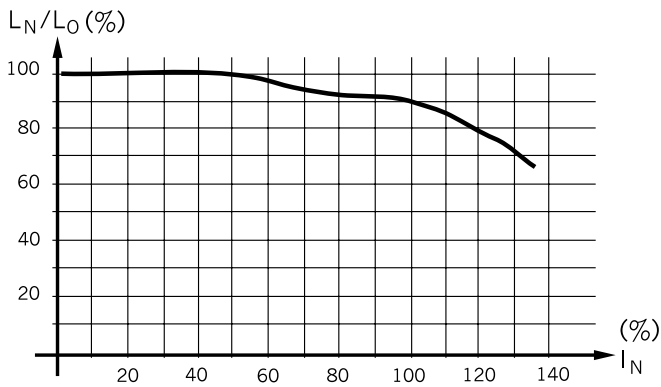


Diagrams

Application in DC-DC Converter



- 1) DC-Input unregulated
 2) DC-Output regulated

Derating Curves


Inductance variation as function of the magnetizing current

All Variants

I_n [A]	L_n [mH]	R_{cu} [mΩ]	f_{RES} [MHz]	Weight [g]	Housings	Packing unit [pcs.]	Order Number
0.6	0.5	360	2.5	7 g	04-1	45	DSF-18-0002
1.2	0.125	90	6.5	7 g	04-1	45	DSF-18-0003
2	0.045	32	12	7 g	04-1	45	DSF-18-0005
4	0.011	8	32	7 g	04-1	45	DSF-18-0006
0.45	3.7	1900	0.6	18 g	15-1	40	DSF-28-0001
1	0.75	360	1.8	18 g	15-1	40	DSF-28-0003
1.4	0.38	160	-	18 g	15-1	40	DSF-28-0004
1.8	0.23	125	3.5	18 g	15-1	40	DSF-28-0005
3.15	0.075	45	7	18 g	15-1	40	DSF-28-0006
4.5	0.018	10	18	18 g	15-1	40	DSF-28-0008
4.5	0.037	20	10	18 g	15-1	40	DSF-28-0007

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