

## SF Series

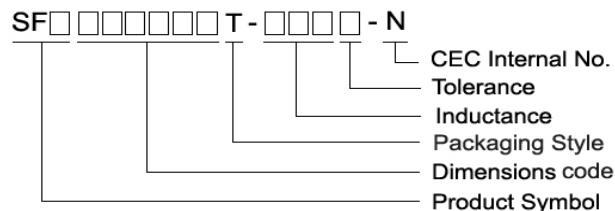
### Features

- RoHS, Halogen Free and REACH Compliance
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
- Customized specifications are available

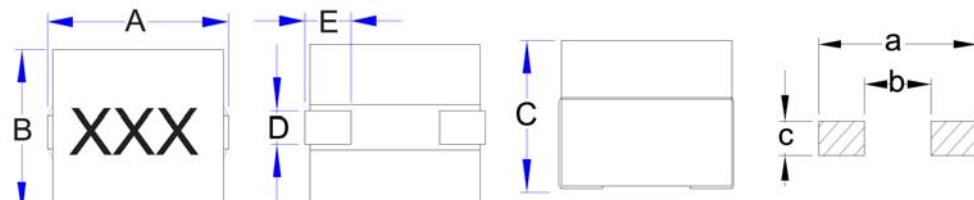
### Applications

- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

### Product Identification



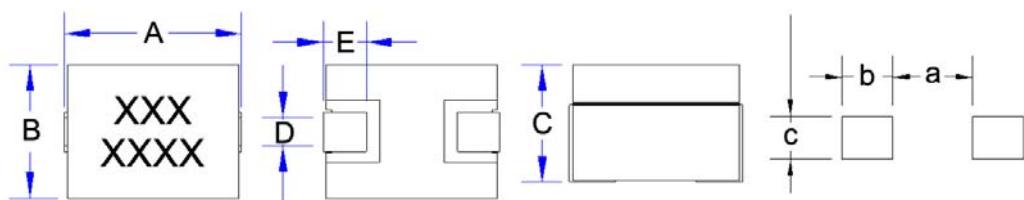
### Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E	a	b	c
SFD100707	11.0 Max	7.5 Max	7.0 Max	1.6±0.2	2.6±0.3	11.0	4.3	2

### Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E	a	b	c
SFS100875	10.2±0.2	8.0 Max	7.3±0.2	2.2±0.2	2.54±0.5	4.7	3.0	2.5

# SMD Power Inductors - SF Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±7%	Isat (A) Max	Irms (A) Max
SFD100707T-R12L-N	0.15	15	100	0.37	60	37
SFD100707T-R18L-N	0.17	15	100	0.37	50	37
SFD100707T-R22L-N	0.22	15	100	0.37	40	37
SFD100707T-R33L-N	0.27	15	100	0.37	28	37
SFD100707T-R40L-N	0.30	15	100	0.37	21	37

**Note: When ordering, please specify tolerance code. Tolerance: L=±15%**

- Customized Specifications are available
- Operating temperature range - 40°C ~ 125°C (Including self - temperature rise)
- OCL (Open Circuit Inductance) Test parameters: 100kHz, 0.25Vrms, 0Adc & Isat @20°C
- DC current for an approximate  $\Delta T$  of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, airflow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 155°C under worst case operating conditions verified in the end application.

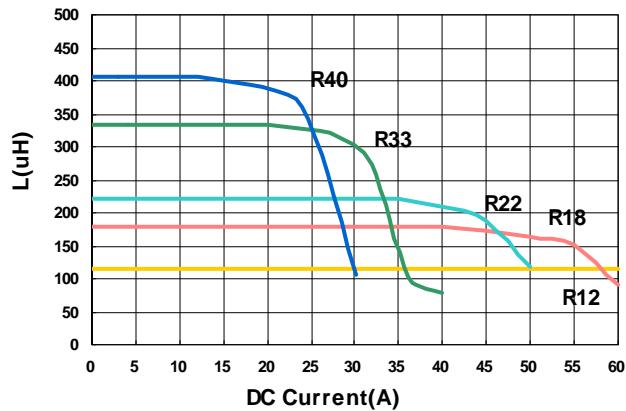
● Measure Equipment :

L : WK4237METER

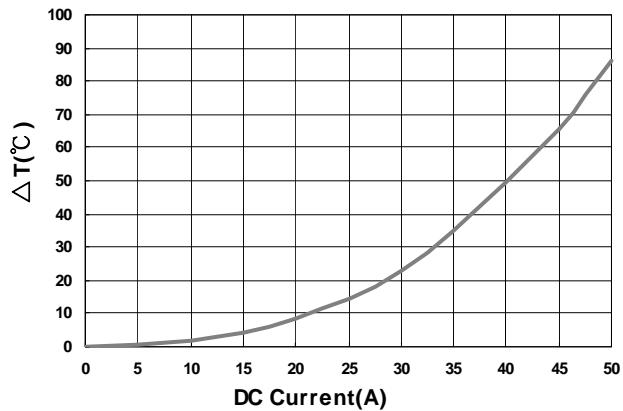
RDC : CHEN HWA 502

Isat : WK3260B+WK3265B

Inductance vs. DC Current



Temperature Change vs. DC Current



CHILISIN ELECTRONICS CORP.

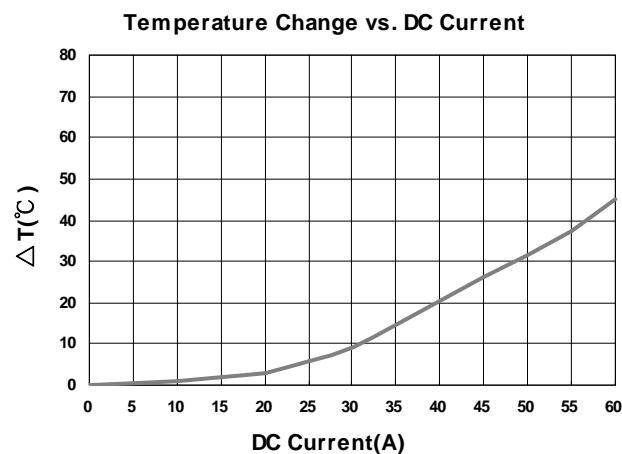
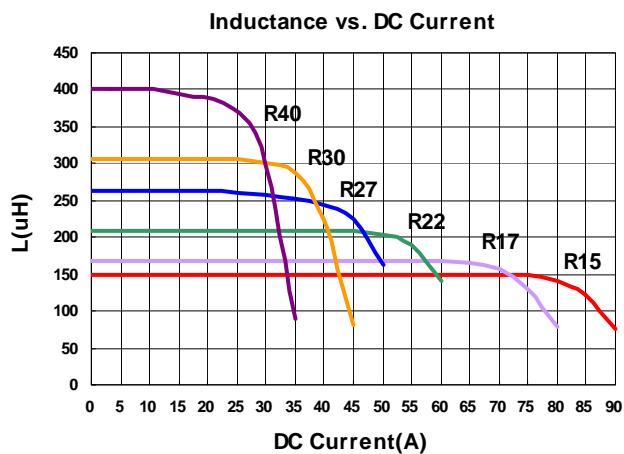
# SMD Power Inductors - SF Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±6%	Isat (A) Max	Irms (A) Max
SFS100875T-R15K-N	0.15	10	100	0.29	76	56
SFS100875T-R17K-N	0.17	10	100	0.29	66	56
SFS100875T-R22K-N	0.22	10	100	0.29	50	56
SFS100875T-R27K-N	0.27	10	100	0.29	40	56
SFS100875T-R30K-N	0.30	10	100	0.29	35	56
SFS100875T-R40L-N	0.40	15	100	0.29	25	56

Note: When ordering, please specify tolerance code. Tolerance: K=±10%

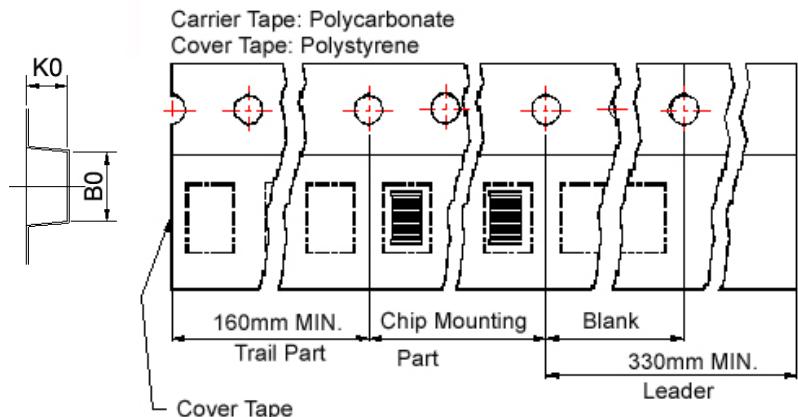
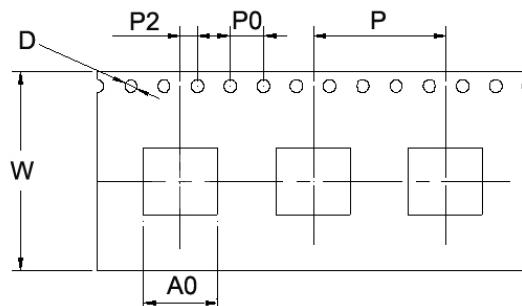
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- Operating temperature range - 40°C ~ 125°C (Including self - temperature rise)
- OCL (Open Circuit Inductance) Test parameters: 100kHz, 0.25Vrms, 0Adc & Isat @20°C
- DC current for an approximate  $\Delta T$  of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, airflow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 155°C under worst case operating conditions verified in the end application.
- Measure Equipment :
  - L : WK4237METER
  - RDC : CHEN HWA 502
  - Isat : WK3260B+WK3265B



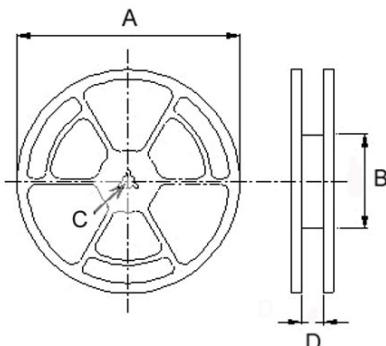
# SMD Power Inductors - SF Series

## Packaging Specifications

### Tape Dimensions



### Reel Dimensions



### Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	W	P	P0	P2	A	B	C	D	
SFD100707	7.4	10.6	7.6	1.5	24	12	4	2	330	100	13.5	24	640
SFS100875	8.0	10.3	7.7	1.5	24	12	4	2	330	100	13.5	24	700