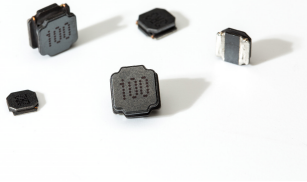


SFNR Series



Features

RoHS, Halogen Free and REACH Compliance
Shielded and miniature design
Shielded power inductor
Side soldering process

Applications

Smartphones, tablets and wearable devices
DSC, camcorders
DC/DC converters etc.

Product Identification

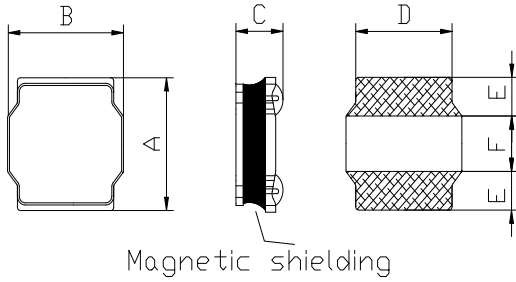
SFNR XXXXXX TL - XXXX
For example:SFNR201610TL-100M

General Specifications

Test Frequency.....1MHz
Test Voltage.....1V
Parameters Test Temp..... 25°C
Operation Temp.....-40°C to +125°C
(Including temperature Rise)
Storage Temp.....0~40°C
Storage Humidity.....<70% RH
Resistance to Soldering Heat.....260°C for 10 sec
Rated Current.....Ind. drops of 35%typ at Isat
Temperature Rise.....40°Ctyp. at Irms

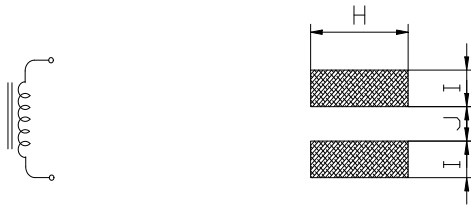
Shape And Dimensions

Dimensions In mm



TYPE	A	B	C	D	E	F	H	I	J
	±0.2	±0.2	Max	Ref	Ref	Ref	Ref	Ref	Ref
201610	2.00	1.70	1.05	1.50	0.60	0.80	1.95	1.00	0.40
252010	2.50	2.20	1.05	1.65	0.80	0.90	1.95	1.10	0.60
252012	2.50	2.20	1.25	1.65	0.80	0.90	1.95	1.10	0.60

Electrical Schematic & PAD Lavout



Standard Specifications

Stamp	Inductance (uH)	SFNR201610			SFNR252010			SFNR252012		
		DCR (mΩ) Max	Isat (A)	Irms (A)	DCR (mΩ) Max	Isat (A)	Irms (A)	DCR (mΩ) Max	Isat (A)	Irms (A)
R24	0.24	40.0	4.50	3.15	26.0	5.00	4.40	30.0	6.50	4.50
R33	0.33	50.0	4.20	3.10	35.0	4.80	4.00	36.0	5.30	3.20
R47	0.47	55.0	4.00	3.00	45.0	4.40	3.40	40.0	4.90	3.10
R56	0.56				48.0	3.80	3.10			
R68	0.68	65.0	3.50	2.80	59.0	3.20	3.00	50.0	3.85	3.00
1R0	1.00	96.0	3.35	2.20	76.0	3.10	2.60	60.0	3.80	2.90
1R5	1.50	130	1.95	1.80	106	2.60	2.00	86.0	2.90	2.10
2R2	2.20	195	1.90	1.50	155	1.90	1.80	115	2.60	2.00
3R3	3.30	310	1.40	1.20	235	1.60	1.50	190	1.90	1.70
4R7	4.70	440	1.20	1.00	276	1.30	1.20	235	1.80	1.50
6R8	6.80	540	0.90	0.85	430	1.10	1.00	380	1.15	1.10
100	10.0	826	0.80	0.70	520	0.90	0.85	480	1.10	1.00
220	22.0							1080	0.70	0.65

Note: When ordering, please specify tolerance code. Tolerance: M=±20%, P=±25%, N=±30%

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*Beyond the above specification also can meet the special requirements. Need detailed content Please to the website query or contact us.

SFNR Series



Features

RoHS, Halogen Free and REACH Compliance
 Shielded and miniature design
 Shielded power inductor
 Ultra-high saturation current

Applications

Smartphones, tablets and wearable devices
 DSC, camcorders
 DC/DC converters etc.

Product Identification

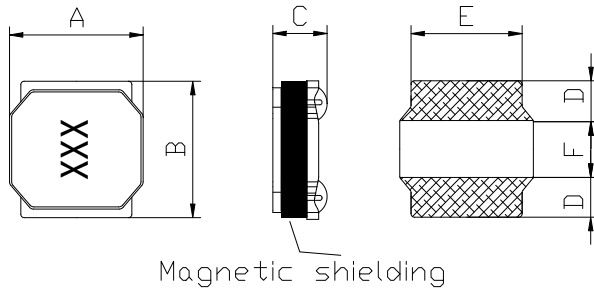
SFNR XXXXTL - XXXX
 For example: SFNR3012TL-100M

General Specifications

Test frequency.....100KHZ
 Test Voltage.....0.25V
 Parameters Test Temp..... 25°C
 Operation Temp.....-40°C to +125°C
 (Including temperature Rise)
 Storage Temp.....0~-40°C
 Storage Humidity.....<70% RH
 Resistance to Soldering Heat.....260°C for 10 sec
 Rated Current.....Ind. drops of 30% typ at Isat
 Temperature Rise......40°C typ. at Irms

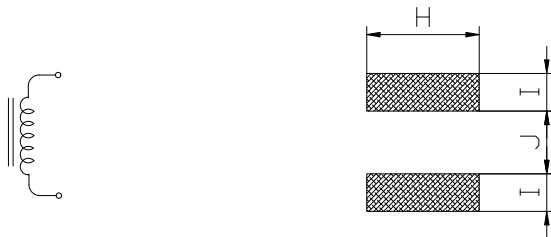
Shape And Dimensions

Dimensions In mm



TYPE	A	B	C	D	E	F	H	I	J
	±0.2	±0.2	Max	Ref	Ref	Ref	Ref	Ref	Ref
3012	3.00	3.00	1.35	1.13	2.60	0.82	2.90	1.50	0.50
4012	4.00	4.00	1.35	1.30	3.50	1.40	3.80	1.70	1.10
4020	4.00	4.00	2.05	1.00	3.50	2.00	3.80	1.40	1.70

Electrical Schematic & PAD Layout



Standard Specifications

Stamp	Inductance (uH)	SFNR3012				SFNR4012				SFNR4020			
		DCR (mΩ) Max	Isat (A) Max	Irms (A) Max	SRF (MHZ) Min	DCR (mΩ) Max	Isat (A) Max	Irms (A) Max	SRF (MHZ) Min	DCR (mΩ) Max	Isat (A) Max	Irms (A) Max	SRF (MHZ) Min
R33	0.33	30	7.20	4.20	107	32	10.30	4.30	113				
R47	0.47	36	6.80	3.90	86	41	9.10	3.80	96				
R68	0.68	44	5.80	3.40	63	41	5.50	3.80	70				
1R0	1.00	58	4.20	2.70	51	59	5.70	3.20	55	28	8.70	5.80	37
1R2	1.20					59	4.00	3.20	48				
1R5	1.50	77	3.40	2.50	37	70	3.90	2.8	38	38	7.70	5.20	30
2R2	2.20	110	2.80	2.05	28	79	2.80	2.70	28	50	6.10	4.30	25
3R3	3.30	158	2.20	1.70	25	125	2.80	2.10	23	74	4.70	3.45	19
4R7	4.70	235	2.00	1.30	20	166	2.30	1.90	19	110	4.00	2.85	17
6R8	6.80	340	1.60	1.10	16	226	1.60	1.60	17	158	3.00	2.40	13
100	10.00	474	1.20	1.00	12	335	1.55	1.30	12	218	2.80	2.00	11
220	22.00					720	1.05	0.90	7				

Note: When ordering, please specify tolerance code. Tolerance: M=±20%, P=±25%, N=±30%

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