

SNR Series

Features

RoHS, Halogen Free and REACH Compliance
 Magnetic-resin shielded construction reduces buzz noise to ultra-low levels
 Metallization on ferrite core results in excellent shock resistance and damage-free durability
 30% higher current rating than conventional inductors of equal size
 Takes up less PCB real estate and save more power

Applications

Flat-screen TVs, blue-ray disc recorders, set top box, movie cameras, smart phone
 Portable gaming devices, personal navigation systems, personal multimedia devices
 Telecomm base stations, VR, AR

Product Identification

SNR XXXX TL - XXXX
 For example: SNR3012TL-4R7M

General Specifications

Test Frequency..... 100KHz
 Test Voltage..... 1.0V
 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

Fig.1

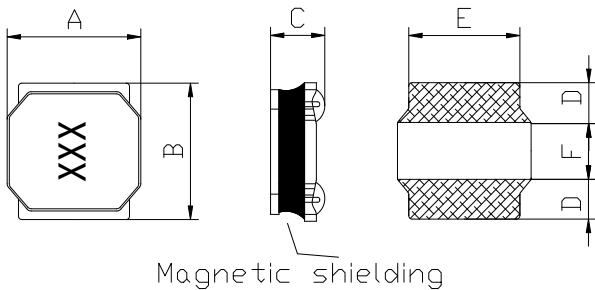
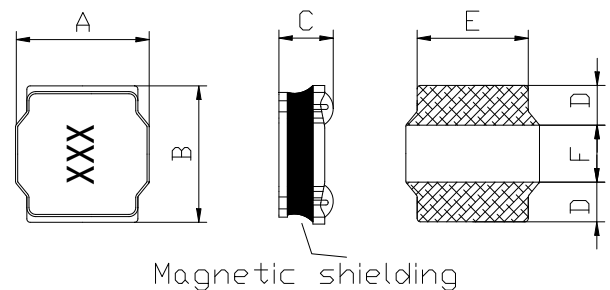
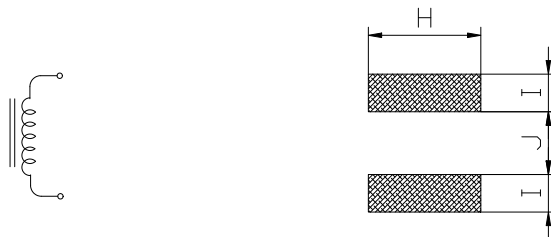


Fig.2



Electrical Schematic & PAD Layout



Dimensions In mm

TYPE	A	B	C	D	E	F	H	I	J	Shape
	±0.2	±0.2	Max	Ref	Ref	Ref	Ref	Ref	Ref	
3010	3.00	3.00	1.20	0.90	2.50	1.20	2.80	1.30	0.90	Fig.1
3012	3.00	3.00	1.30	0.90	2.80	1.20	3.00	1.30	0.90	Fig.1
3015	3.00	3.00	1.50	0.90	2.60	1.20	2.90	1.30	0.90	Fig.2

Standard Specifications

Stamp	Inductance (uH)	SNR3010				SNR3012				SNR3015			
		DCR (mΩ) Max	Isat (A)	Irms (A)	SRF (MHZ) Min	DCR (mΩ) Max	Isat (A)	Irms (A)	SRF (MHZ) Min	DCR (mΩ) Max	Isat (A)	Irms (A)	SRF (MHZ) Min
R22	0.22					30	5.30	3.00	321				
R50	0.50									39	3.90	2.60	162
R82	0.82					50	2.05	2.47	180				
1R0	1.00	85	1.40	1.45	180	60	1.87	2.20	120	39	2.32	2.35	150
1R2	1.20	95	1.25	1.45	137	72	1.80	2.01	120	52	2.21	1.95	110
1R5	1.50	104	1.27	1.30	120	75	1.62	2.01	110	65	2.30	1.70	100
1R8	1.80					98	1.30	1.65	90	65	1.75	1.70	92
2R2	2.20	143	1.15	1.09	100	105	1.20	1.55	84	78	1.60	1.60	86
2R4	2.40					110	1.15	1.60	100				
2R7	2.70	169	1.00	1.02	90	110	1.14	1.48	65	98	1.52	1.43	64
3R3	3.30	189	0.97	0.96	74	130	1.05	1.36	64	104	1.32	1.36	68
3R6	3.60	215	0.95	0.90	67	156	1.05	1.36	36	137	1.28	1.20	59
3R9	3.90					156	1.00	1.24	61	137	1.20	1.20	47
4R3	4.30									150	1.20	1.14	53
4R7	4.70	293	0.75	0.77	59	156	0.90	1.24	61	163	1.10	1.09	46
5R1	5.10									173	1.00	1.05	49
5R6	5.60	322	0.58	0.70	40	226	0.80	1.13	61				
6R2	6.20									254	1.00	0.86	46
6R8	6.80	397	0.55	0.66	42	247	0.75	0.98	61	260	0.85	0.85	39
8R2	8.20	520	0.55	0.58	23								
100	10.0	520	0.55	0.58	39	345	0.60	0.83	42	325	0.72	0.77	41
120	12.0	657	0.43	0.52	36	480	0.48	0.73	32	416	0.70	0.68	32
150	15.0	793	0.42	0.47	30	492	0.45	0.71	27	455	0.66	0.65	30
180	18.0					709	0.43	0.58	25	559	0.56	0.59	23
220	22.0	1209	0.35	0.38	28	839	0.42	0.53	23	598	0.52	0.57	23
270	27.0	1404	0.30	0.35	25	1131	0.35	0.47	21	949	0.48	0.45	22
330	33.0	2015	0.29	0.30	18	1138	0.36	0.46	18	1066	0.44	0.43	20
360	36.0					1235	0.34	0.44	18				
390	39.0	2275	0.28	0.28	18	1729	0.30	0.37	18	1294	0.41	0.39	14
430	43.0	2340	0.23	0.27	18					1378	0.37	0.37	16
470	47.0	2535	0.22	0.26	18	1885	0.27	0.35	14	1625	0.35	0.35	14
510	51.0	2860	0.21	0.25	18								
560	56.0	3016	0.21	0.24	16	1950	0.26	0.28	9.0	1664	0.33	0.34	13
620	62.0									2093	0.30	0.30	13
680	68.0					2171	0.24	0.33	7.0	3510	0.28	0.23	11
820	82.0					3302	0.17	0.27	7.0				
101	100					3718	0.21	0.25	5.0	4043	0.23	0.21	6.3
151	150									4940	0.18	0.19	4.7

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

*All the data listed in this catalogue are for reference only, JENG SHI reserves the right to alter or revise the specifications without prior notification.

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