

⊕ Feature

- High current saturation.
- Magnetically Shielded Structure.
- Low profile construction and miniature size.

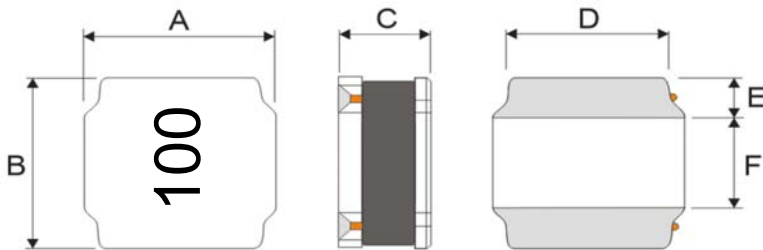
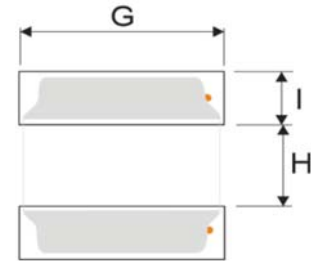
⊕ Applications

- DC to DC converters.
- Power line filtering.
- DVC/DSC/PDA, LCD display.

⊕ Product Identification :


Series name	Dimensions(LxWxH)		Internal code
SNR	3015	3.0*3.0*1.5mm	ZR = Trapezoid
	6045	6.0*6.0*4.5mm	ZE = Octagonal
	8040	8.0*8.0*4.2mm	ZS = Square

Inductance		Tolerance	
1R0	1 μ H	K	10%
100	10 μ H	M	20%
102	1000 μ H	N	30%

⊕ Shapes And Dimensions

⊕ Recommended PCB Pattern


Part No.	Dimensions(mm)								
	A	B	C	D	E	F	G	H	I
SNR3010ZR	3.0±0.20	3.0±0.20	1.0 Max.	2.5±0.20	0.75±0.20	1.5±0.30	2.7 Ref	1.5 Ref	0.8 Ref
SNR3012ZR	3.0±0.20	3.0±0.20	1.2 Max.	2.5±0.20	0.75±0.20	1.5±0.30	2.7 Ref	1.5 Ref	0.8 Ref
SNR3015ZR	3.0±0.20	3.0±0.20	1.5 Max.	2.5±0.20	0.75±0.20	1.5±0.30	2.7 Ref	1.5 Ref	0.8 Ref
SNR4012ZR	4.0±0.20	4.0±0.20	1.2 Max.	3.3±0.20	0.95±0.20	2.1±0.30	3.7 Ref	1.6 Ref	1.2 Ref
SNR4018ZR	4.0±0.20	4.0±0.20	1.8 Max.	3.3±0.20	0.95±0.20	2.1±0.30	3.7 Ref	1.6 Ref	1.2 Ref
SNR4020ZR	4.0±0.20	4.0±0.20	2.0 Max.	3.3±0.20	0.95±0.20	2.1±0.30	3.7 Ref	1.6 Ref	1.2 Ref
SNR4030ZR	4.0±0.20	4.0±0.20	3.0 Max.	3.3±0.20	0.95±0.20	2.1±0.30	3.7 Ref	1.6 Ref	1.2 Ref
SNR5020ZR	5.0±0.20	5.0±0.20	2.0 Max.	4.0±0.20	1.25±0.20	2.5±0.30	4.2 Ref	2.3 Ref	1.4 Ref
SNR5040ZR	5.0±0.20	5.0±0.20	4.0 Max.	4.0±0.20	1.25±0.20	2.5±0.30	4.2 Ref	2.3 Ref	1.4 Ref
SNR6012ZR	6.0±0.30	6.0±0.30	1.2 Max.	4.9±0.30	1.70±0.30	2.9±0.30	5.7 Ref	2.8 Ref	1.7 Ref
SNR6020ZR	6.0±0.30	6.0±0.30	2.0 Max.	4.9±0.30	1.70±0.30	2.9±0.30	5.7 Ref	2.8 Ref	1.7 Ref
SNR6028ZR	6.0±0.30	6.0±0.30	2.8 Max.	4.9±0.30	1.70±0.30	2.9±0.30	5.7 Ref	2.8 Ref	1.7 Ref
SNR6045ZR	6.0±0.30	6.0±0.30	4.5 Max.	4.9±0.30	1.70±0.30	2.9±0.30	5.7 Ref	2.8 Ref	1.7 Ref
SNR8040ZR	8.0±0.30	8.0±0.30	4.2 Max.	6.3±0.30	2.20±0.30	3.5±0.50	7.7 Ref	3.8 Ref	2.2 Ref

⊕ Equivalent Circuit Schematic :

⊕ Material List :

No.	Location	Material
1	Core	Ferrite Ni-Zn core
2	Wire	Grade1 P180
3	Solder	Sn99.3 Cu0.7
4	Epoxy	Magnetic powder resin
5	Ink	Black

1.Operating temperature -40°C ~ +125°C

2.Storage conditions -40°C ~ +125°C

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR3010ZR-1R0N	1 \pm 30%	1.40	2.10	1.45	1.80	85	65	100KHz/1V
SNR3010ZR-1R2N	1.2 \pm 30%	1.25	1.70	1.45	1.80	85	65	100KHz/1V
SNR3010ZR-1R5N	1.5 \pm 30%	1.27	1.70	1.30	1.60	104	80	100KHz/1V
SNR3010ZR-2R2N	2.2 \pm 30%	1.15	1.50	1.09	1.40	143	110	100KHz/1V
SNR3010ZR-2R7N	2.7 \pm 30%	1.00	1.20	1.02	1.40	169	130	100KHz/1V
SNR3010ZR-3R3N	3.3 \pm 30%	0.97	1.20	0.96	1.20	189	145	100KHz/1V
SNR3010ZR-3R6M	3.6 \pm 20%	0.95	1.20	0.90	1.10	215	165	100KHz/1V
SNR3010ZR-4R7M	4.7 \pm 20%	0.75	1.05	0.77	1.10	293	225	100KHz/1V
SNR3010ZR-5R6M	5.6 \pm 20%	0.58	0.65	0.70	1.05	322	248	100KHz/1V
SNR3010ZR-6R8M	6.8 \pm 20%	0.55	0.72	0.66	0.96	397	305	100KHz/1V
SNR3010ZR-8R2M	8.2 \pm 20%	0.55	0.70	0.58	0.70	520	400	100KHz/1V
SNR3010ZR-100M	10 \pm 20%	0.55	0.75	0.58	0.70	520	400	100KHz/1V
SNR3010ZR-120M	12 \pm 20%	0.43	0.60	0.52	0.67	657	505	100KHz/1V
SNR3010ZR-150M	15 \pm 20%	0.42	0.57	0.47	0.57	793	610	100KHz/1V
SNR3010ZR-220M	22 \pm 20%	0.35	0.48	0.38	0.52	1209	930	100KHz/1V
SNR3010ZR-270M	27 \pm 20%	0.30	0.45	0.35	0.50	1404	1080	100KHz/1V
SNR3010ZR-330M	33 \pm 20%	0.29	0.42	0.30	0.55	2015	1550	100KHz/1V
SNR3010ZR-390M	39 \pm 20%	0.28	0.38	0.28	0.53	2275	1750	100KHz/1V
SNR3010ZR-430M	43 \pm 20%	0.23	0.36	0.27	0.52	2340	1800	100KHz/1V
SNR3010ZR-470M	47 \pm 20%	0.22	0.35	0.26	0.52	2535	1950	100KHz/1V
SNR3010ZR-510M	51 \pm 20%	0.21	0.33	0.25	0.48	2860	2200	100KHz/1V
SNR3010ZR-560M	56 \pm 20%	0.21	0.28	0.24	0.35	3016	2320	100KHz/1V
SNR3010ZR-101M	100 \pm 20%	0.19	0.23	0.22	0.26	3840	3200	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR3012ZR-R22N	0.22 \pm 30%	5.30	6.00	3.00	3.30	22	17	100KHz/1V
SNR3012ZR-R82N	0.82 \pm 30%	2.05	2.80	2.47	3.00	39	30	100KHz/1V
SNR3012ZR-1R0M	1 \pm 20%	1.87	2.80	2.20	2.70	52	40	100KHz/1V
SNR3012ZR-1R2M	1.2 \pm 20%	2.22	2.50	2.01	2.20	59	45	100KHz/1V
SNR3012ZR-1R5M	1.5 \pm 20%	1.62	1.90	2.01	2.20	59	45	100KHz/1V
SNR3012ZR-1R8M	1.8 \pm 20%	1.30	1.90	1.65	1.80	82	63	100KHz/1V
SNR3012ZR-2R2M	2.2 \pm 20%	1.20	1.90	1.55	1.70	98	75	100KHz/1V
SNR3012ZR-2R4M	2.4 \pm 20%	1.15	1.50	1.60	1.70	98	75	100KHz/1V
SNR3012ZR-2R7M	2.7 \pm 20%	1.14	1.50	1.48	1.50	110	85	100KHz/1V
SNR3012ZR-3R3M	3.3 \pm 20%	1.05	1.50	1.36	1.40	130	100	100KHz/1V
SNR3012ZR-3R6M	3.6 \pm 20%	1.05	1.50	1.36	1.40	130	100	100KHz/1V
SNR3012ZR-3R9M	3.9 \pm 20%	1.00	1.30	1.24	1.30	189	145	100KHz/1V
SNR3012ZR-4R7M	4.7 \pm 20%	0.90	1.00	1.24	1.30	156	120	100KHz/1V
SNR3012ZR-5R6M	5.6 \pm 20%	0.80	1.10	1.13	1.24	226	174	100KHz/1V
SNR3012ZR-6R8M	6.8 \pm 20%	0.75	0.90	0.98	1.10	247	190	100KHz/1V
SNR3012ZR-100M	10 \pm 20%	0.60	0.88	0.83	0.90	345	265	100KHz/1V
SNR3012ZR-120M	12 \pm 20%	0.48	0.67	0.73	0.84	449	345	100KHz/1V
SNR3012ZR-150M	15 \pm 20%	0.45	0.62	0.71	0.77	468	360	100KHz/1V
SNR3012ZR-180M	18 \pm 20%	0.43	0.59	0.58	0.65	709	545	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR3012ZR-220M	22 \pm 20%	0.42	0.52	0.53	0.59	839	645	100KHz/1V
SNR3012ZR-270M	27 \pm 20%	0.35	0.48	0.47	0.51	1131	870	100KHz/1V
SNR3012ZR-330M	33 \pm 20%	0.36	0.46	0.46	0.50	1138	875	100KHz/1V
SNR3012ZR-360M	36 \pm 20%	0.34	0.44	0.44	0.48	1235	950	100KHz/1V
SNR3012ZR-390M	39 \pm 20%	0.30	0.39	0.37	0.41	1729	1330	100KHz/1V
SNR3012ZR-470M	47 \pm 20%	0.27	0.35	0.35	0.40	1885	1450	100KHz/1V
SNR3012ZR-560M	56 \pm 20%	0.26	0.33	0.28	0.40	1794	1380	100KHz/1V
SNR3012ZR-680M	68 \pm 20%	0.24	0.29	0.33	0.37	2171	1670	100KHz/1V
SNR3012ZR-820M	82 \pm 20%	0.17	0.27	0.27	0.31	3302	2540	100KHz/1V
SNR3012ZR-101M	100 \pm 20%	0.21	0.23	0.25	0.29	3718	2860	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR3015ZR-R50M	0.5 \pm 20%	3.90	4.20	2.60	2.80	39	30	100KHz/1V
SNR3015ZR-1R0M	1 \pm 20%	2.32	2.80	2.35	2.50	39	30	100KHz/1V
SNR3015ZR-1R5M	1.5 \pm 20%	2.30	2.70	1.70	2.20	65	50	100KHz/1V
SNR3015ZR-2R2M	2.2 \pm 20%	1.60	2.00	1.60	2.00	78	60	100KHz/1V
SNR3015ZR-3R3M	3.3 \pm 20%	1.32	1.81	1.36	1.60	104	80	100KHz/1V
SNR3015ZR-4R7M	4.7 \pm 20%	1.10	1.40	1.09	1.30	163	125	100KHz/1V
SNR3015ZR-5R6M	5.6 \pm 20%	1.05	1.25	1.00	1.20	230	170	100KHz/1V
SNR3015ZR-6R8M	6.8 \pm 20%	0.85	1.10	0.85	1.10	260	200	100KHz/1V
SNR3015ZR-100M	10 \pm 20%	0.72	0.92	0.77	0.90	325	250	100KHz/1V
SNR3015ZR-150M	15 \pm 20%	0.66	0.88	0.65	0.72	455	350	100KHz/1V
SNR3015ZR-220M	22 \pm 20%	0.52	0.68	0.57	0.69	598	460	100KHz/1V
SNR3015ZR-330M	33 \pm 20%	0.44	0.53	0.43	0.51	1066	820	100KHz/1V
SNR3015ZR-470M	47 \pm 20%	0.35	0.43	0.35	0.44	1625	1250	100KHz/1V
SNR3015ZR-560M	56 \pm 20%	0.33	0.42	0.34	0.41	1664	1280	100KHz/1V
SNR3015ZR-680M	68 \pm 20%	0.28	0.37	0.23	0.31	3510	2700	100KHz/1V
SNR3015ZR-101M	100 \pm 20%	0.23	0.25	0.21	0.25	4043	3110	100KHz/1V
SNR3015ZR-151M	150 \pm 20%	0.18	0.22	0.19	0.23	4910	3800	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR4012ZR-R82M	0.82 \pm 20%	3.02	3.30	1.65	2.50	65	50	100KHz/1V
SNR4012ZR-1R0M	1 \pm 20%	2.61	3.20	1.65	2.50	65	50	100KHz/1V
SNR4012ZR-1R5M	1.5 \pm 20%	2.10	2.70	1.46	2.20	85	65	100KHz/1V
SNR4012ZR-1R8M	1.8 \pm 20%	2.12	2.60	1.32	1.90	104	80	100KHz/1V
SNR4012ZR-2R2M	2.2 \pm 20%	1.76	2.30	1.32	1.90	104	80	100KHz/1V
SNR4012ZR-2R7M	2.7 \pm 20%	1.90	2.30	1.25	1.70	117	90	100KHz/1V
SNR4012ZR-3R3M	3.3 \pm 20%	1.72	2.10	1.12	1.60	143	110	100KHz/1V
SNR4012ZR-3R6M	3.6 \pm 20%	1.20	1.70	1.12	1.60	143	110	100KHz/1V
SNR4012ZR-4R3M	4.3 \pm 20%	1.58	1.70	1.00	1.50	182	140	100KHz/1V
SNR4012ZR-4R7M	4.7 \pm 20%	1.15	1.80	1.05	1.50	163	125	100KHz/1V
SNR4012ZR-5R1M	5.1 \pm 20%	1.55	1.60	0.95	1.50	201	155	100KHz/1V
SNR4012ZR-5R6M	5.6 \pm 20%	1.00	1.60	1.00	1.20	182	140	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR4012ZR-6R8M	6.8 \pm 20%	0.85	1.40	0.84	0.20	257	198	100KHz/1V
SNR4012ZR-100M	10 \pm 20%	0.80	1.10	0.77	1.00	345	265	100KHz/1V
SNR4012ZR-120M	12 \pm 20%	0.66	1.00	0.70	0.95	377	290	100KHz/1V
SNR4012ZR-150M	15 \pm 20%	0.56	0.80	0.64	0.85	442	340	100KHz/1V
SNR4012ZR-180M	18 \pm 20%	0.55	0.75	0.55	0.80	611	470	100KHz/1V
SNR4012ZR-220M	22 \pm 20%	0.46	0.70	0.49	0.75	763	587	100KHz/1V
SNR4012ZR-270M	27 \pm 20%	0.50	0.70	0.45	0.60	936	720	100KHz/1V
SNR4012ZR-330M	33 \pm 20%	0.42	0.60	0.42	0.58	1053	810	100KHz/1V
SNR4012ZR-360M	36 \pm 20%	0.40	0.50	0.40	0.56	1170	900	100KHz/1V
SNR4012ZR-390M	39 \pm 20%	0.55	0.66	0.37	0.50	1430	1100	100KHz/1V
SNR4012ZR-470M	47 \pm 20%	0.35	0.50	0.37	0.50	1430	1100	100KHz/1V
SNR4012ZR-560M	56 \pm 20%	0.33	0.45	0.33	0.46	1625	1250	100KHz/1V
SNR4012ZR-680M	68 \pm 20%	0.38	0.45	0.27	0.45	2535	1950	100KHz/1V
SNR4012ZR-820M	82 \pm 20%	0.28	0.40	0.26	0.36	2782	2140	100KHz/1V
SNR4012ZR-101M	100 \pm 20%	0.25	0.30	0.25	0.35	2873	2210	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR4018ZR-1R0N	1 \pm 30%	4.80	5.20	2.50	3.30	33	25	100KHz/1V
SNR4018ZR-1R5N	1.5 \pm 30%	3.35	4.50	2.34	3.00	33	25	100KHz/1V
SNR4018ZR-2R2N	2.2 \pm 30%	2.70	3.20	1.65	2.60	59	45	100KHz/1V
SNR4018ZR-3R3M	3.3 \pm 20%	2.45	2.90	1.23	2.10	91	70	100KHz/1V
SNR4018ZR-4R7M	4.7 \pm 20%	1.70	2.20	1.20	1.80	117	90	100KHz/1V
SNR4018ZR-5R6M	5.6 \pm 20%	1.60	2.10	1.50	1.70	103	95	100KHz/1V
SNR4018ZR-6R8M	6.8 \pm 20%	1.45	2.00	1.06	1.50	143	110	100KHz/1V
SNR4018ZR-8R2M	8.2 \pm 20%	1.40	1.80	1.15	1.30	180	140	100KHz/1V
SNR4018ZR-100M	10 \pm 20%	1.30	1.60	0.84	1.20	234	180	100KHz/1V
SNR4018ZR-150M	15 \pm 20%	0.94	1.10	0.65	1.10	325	250	100KHz/1V
SNR4018ZR-220M	22 \pm 20%	0.80	0.88	0.59	0.85	468	360	100KHz/1V
SNR4018ZR-330M	33 \pm 20%	0.65	0.75	0.60	0.75	560	480	100KHz/1V
SNR4018ZR-470M	47 \pm 20%	0.57	0.65	0.50	0.65	850	710	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR4020ZR-R24N	0.24 \pm 30%	10.50	12.50	4.50	5.20	14	11	100KHz/1V
SNR4020ZR-R33N	0.33 \pm 30%	7.50	8.50	3.30	4.90	16	13	100KHz/1V
SNR4020ZR-R47N	0.47 \pm 30%	7.00	7.50	3.30	3.70	29	22	100KHz/1V
SNR4020ZR-R68N	0.68 \pm 30%	6.40	6.60	2.80	3.30	36	28	100KHz/1V
SNR4020ZR-1R0N	1 \pm 30%	4.78	5.20	2.15	3.20	38	29	100KHz/1V
SNR4020ZR-1R2N	1.2 \pm 30%	5.10	5.60	2.15	3.20	38	29	100KHz/1V
SNR4020ZR-1R5N	1.5 \pm 30%	4.45	4.90	1.98	3.00	46	35	100KHz/1V
SNR4020ZR-2R2N	2.2 \pm 30%	3.40	3.70	1.85	2.80	52	40	100KHz/1V
SNR4020ZR-3R3M	3.3 \pm 20%	3.20	3.50	1.40	2.50	91	70	100KHz/1V
SNR4020ZR-3R6M	3.6 \pm 20%	2.80	3.00	1.54	2.50	72	55	100KHz/1V
SNR4020ZR-4R7M	4.7 \pm 20%	2.35	2.50	1.34	2.00	98	75	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR4020ZR-5R1M	5.1 \pm 20%	2.30	2.50	1.27	1.80	111	85	100KHz/1V
SNR4020ZR-5R6M	5.6 \pm 20%	2.20	2.40	1.22	1.80	117	90	100KHz/1V
SNR4020ZR-6R2M	6.2 \pm 20%	2.15	2.30	1.08	1.60	150	115	100KHz/1V
SNR4020ZR-6R8M	6.8 \pm 20%	2.20	2.40	1.04	1.60	163	125	100KHz/1V
SNR4020ZR-7R5M	7.5 \pm 20%	1.85	2.00	1.08	1.50	150	115	100KHz/1V
SNR4020ZR-8R2M	8.2 \pm 20%	1.75	1.90	1.04	1.40	163	125	100KHz/1V
SNR4020ZR-100M	10 \pm 20%	1.60	1.70	0.90	1.20	215	165	100KHz/1V
SNR4020ZR-120M	12 \pm 20%	1.50	1.60	0.88	1.20	228	175	100KHz/1V
SNR4020ZR-150M	15 \pm 20%	1.35	1.50	0.77	1.10	299	230	100KHz/1V
SNR4020ZR-220M	22 \pm 20%	1.05	1.10	0.62	0.87	455	350	100KHz/1V
SNR4020ZR-270M	27 \pm 20%	1.02	1.10	0.50	0.70	709	545	100KHz/1V
SNR4020ZR-330M	33 \pm 20%	0.85	0.93	0.49	0.68	715	550	100KHz/1V
SNR4020ZR-390M	39 \pm 20%	0.82	0.90	0.46	0.64	845	650	100KHz/1V
SNR4020ZR-430M	43 \pm 20%	0.77	0.85	0.45	0.63	858	660	100KHz/1V
SNR4020ZR-470M	47 \pm 20%	0.74	0.81	0.44	0.61	923	717	100KHz/1V
SNR4020ZR-510M	51 \pm 20%	0.70	0.77	0.42	0.59	975	750	100KHz/1V
SNR4020ZR-560M	56 \pm 20%	0.66	0.72	0.41	0.57	1040	800	100KHz/1V
SNR4020ZR-620M	62 \pm 20%	0.65	0.71	0.39	0.52	1170	900	100KHz/1V
SNR4020ZR-680M	68 \pm 20%	0.61	0.67	0.36	0.50	1380	1060	100KHz/1V
SNR4020ZR-750M	75 \pm 20%	0.70	0.77	0.35	0.49	1510	1160	100KHz/1V
SNR4020ZR-820M	82 \pm 20%	0.50	0.55	0.34	0.47	1520	1170	100KHz/1V
SNR4020ZR-101M	100 \pm 20%	0.48	0.53	0.31	0.43	2020	1550	100KHz/1V
SNR4020ZR-151M	150 \pm 20%	0.35	0.40	0.32	0.38	3700	2850	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR4030ZR-R68N	0.68 \pm 30%	6.80	8.00	4.56	5.10	13	10	100KHz/1V
SNR4030ZR-R91N	0.91 \pm 30%	6.25	6.80	4.15	4.70	17	13	100KHz/1V
SNR4030ZR-1R0N	1 \pm 30%	5.26	5.70	4.15	4.70	18	14	100KHz/1V
SNR4030ZR-1R2N	1.2 \pm 30%	5.80	6.30	3.82	4.20	20	15	100KHz/1V
SNR4030ZR-1R5N	1.5 \pm 30%	4.84	5.30	3.34	3.60	26	20	100KHz/1V
SNR4030ZR-1R8N	1.8 \pm 30%	5.40	5.80	3.20	3.30	33	25	100KHz/1V
SNR4030ZR-2R2N	2.2 \pm 30%	4.90	5.80	2.95	3.20	39	30	100KHz/1V
SNR4030ZR-3R3M	3.3 \pm 20%	3.30	3.60	2.40	2.60	52	40	100KHz/1V
SNR4030ZR-3R6M	3.6 \pm 20%	3.00	3.50	2.40	2.60	52	40	100KHz/1V
SNR4030ZR-3R9M	3.9 \pm 20%	3.00	3.30	2.10	2.30	74	57	100KHz/1V
SNR4030ZR-4R3M	4.3 \pm 20%	2.95	3.20	2.10	2.30	72	55	100KHz/1V
SNR4030ZR-4R7M	4.7 \pm 20%	2.90	3.20	2.00	2.30	78	60	100KHz/1V
SNR4030ZR-5R6M	5.6 \pm 20%	2.60	2.80	1.95	2.10	85	65	100KHz/1V
SNR4030ZR-6R8M	6.8 \pm 20%	2.75	3.00	1.60	1.70	117	90	100KHz/1V
SNR4030ZR-7R5M	7.5 \pm 20%	2.20	2.40	1.65	1.80	110	85	100KHz/1V
SNR4030ZR-8R2M	8.2 \pm 20%	1.95	2.40	1.50	1.60	117	90	100KHz/1V
SNR4030ZR-100M	10 \pm 20%	1.95	2.40	1.50	1.60	130	100	100KHz/1V
SNR4030ZR-120M	12 \pm 20%	1.70	1.80	1.30	1.40	175	135	100KHz/1V
SNR4030ZR-150M	15 \pm 20%	1.65	1.80	1.11	1.12	247	190	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR4030ZR-180M	18 \pm 20%	1.40	1.50	1.10	1.20	260	200	100KHz/1V
SNR4030ZR-220M	22 \pm 20%	1.30	1.40	1.00	1.20	292	225	100KHz/1V
SNR4030ZR-270M	27 \pm 20%	1.15	1.35	0.90	1.05	338	260	100KHz/1V
SNR4030ZR-330M	33 \pm 20%	1.10	1.20	0.84	0.92	429	330	100KHz/1V
SNR4030ZR-360M	36 \pm 20%	1.05	1.10	0.83	0.91	436	335	100KHz/1V
SNR4030ZR-390M	39 \pm 20%	1.03	1.10	0.73	0.80	566	435	100KHz/1V
SNR4030ZR-470M	47 \pm 20%	0.95	1.00	0.72	0.80	579	445	100KHz/1V
SNR4030ZR-510M	51 \pm 20%	0.90	1.13	0.70	0.80	611	470	100KHz/1V
SNR4030ZR-560M	56 \pm 20%	0.85	0.94	0.65	0.71	722	555	100KHz/1V
SNR4030ZR-620M	62 \pm 20%	0.80	0.99	0.63	0.70	761	585	100KHz/1V
SNR4030ZR-680M	68 \pm 20%	0.72	0.80	0.52	0.57	1128	868	100KHz/1V
SNR4030ZR-750M	75 \pm 20%	0.70	0.88	0.48	0.53	1326	1020	100KHz/1V
SNR4030ZR-820M	82 \pm 20%	0.66	0.72	0.47	0.52	1378	1060	100KHz/1V
SNR4030ZR-910M	91 \pm 20%	0.65	0.71	0.46	0.50	1430	1100	100KHz/1V
SNR4030ZR-101M	100 \pm 20%	0.60	0.73	0.45	0.49	1495	1150	100KHz/1V
SNR4030ZR-121M	120 \pm 20%	0.55	0.60	0.42	0.46	1755	1350	100KHz/1V
SNR4030ZR-151M	150 \pm 20%	0.50	0.55	0.30	0.35	2340	1800	100KHz/1V
SNR4030ZR-221M	220 \pm 20%	0.40	0.50	0.35	0.40	3250	2500	100KHz/1V
SNR4030ZR-331M	330 \pm 20%	0.30	0.40	0.25	0.26	5200	4000	100KHz/1V
SNR4030ZR-471M	470 \pm 20%	0.30	0.35	0.20	0.23	9360	7200	100KHz/1V
SNR4030ZR-501M	500 \pm 20%	0.28	0.30	0.15	0.20	9027	6944	100KHz/1V
SNR4030ZR-681M	680 \pm 20%	0.19	0.20	0.14	0.18	9854	7580	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR5020ZR-R22M	0.22 \pm 20%	9.00	12.00	5.30	6.00	11	9	100KHz/1V
SNR5020ZR-R24M	0.24 \pm 20%	8.00	10.00	5.30	6.00	11	9	100KHz/1V
SNR5020ZR-R47M	0.47 \pm 20%	6.15	6.70	4.60	5.00	17	13	100KHz/1V
SNR5020ZR-R56M	0.56 \pm 20%	8.50	9.60	3.80	4.20	22	17	100KHz/1V
SNR5020ZR-R68M	0.68 \pm 20%	5.50	6.00	4.00	4.40	22	17	100KHz/1V
SNR5020ZR-1R0M	1 \pm 20%	4.10	5.00	3.80	4.10	26	20	100KHz/1V
SNR5020ZR-1R2M	1.2 \pm 20%	4.50	4.90	3.55	3.90	29	22	100KHz/1V
SNR5020ZR-1R5M	1.5 \pm 20%	4.10	4.50	3.20	3.50	34	26	100KHz/1V
SNR5020ZR-2R2M	2.2 \pm 20%	3.20	4.00	2.90	3.10	42	32	100KHz/1V
SNR5020ZR-2R7M	2.7 \pm 20%	2.90	3.50	2.70	2.90	49	38	100KHz/1V
SNR5020ZR-3R3M	3.3 \pm 20%	2.55	3.00	2.50	2.70	56	43	100KHz/1V
SNR5020ZR-3R9M	3.9 \pm 20%	2.30	2.80	2.50	2.70	56	43	100KHz/1V
SNR5020ZR-4R7M	4.7 \pm 20%	2.50	2.70	2.20	2.40	74	57	100KHz/1V
SNR5020ZR-5R6M	5.6 \pm 20%	2.30	2.50	2.05	2.20	83	64	100KHz/1V
SNR5020ZR-6R8M	6.8 \pm 20%	2.05	2.20	1.80	1.90	108	83	100KHz/1V
SNR5020ZR-8R2M	8.2 \pm 20%	1.85	2.00	1.65	1.80	127	98	100KHz/1V
SNR5020ZR-100M	10 \pm 20%	1.70	1.80	1.55	1.70	143	110	100KHz/1V
SNR5020ZR-150M	15 \pm 20%	1.35	1.40	1.25	1.30	215	165	100KHz/1V
SNR5020ZR-220M	22 \pm 20%	1.15	1.20	1.10	1.20	294	226	100KHz/1V
SNR5020ZR-270M	27 \pm 20%	1.00	1.10	1.00	1.10	380	292	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR5020ZR-330M	33 \pm 20%	0.92	1.00	0.90	0.99	507	390	100KHz/1V
SNR5020ZR-470M	47 \pm 20%	0.77	0.84	0.77	0.84	680	523	100KHz/1V
SNR5020ZR-560M	56 \pm 20%	0.77	0.84	0.70	0.77	819	630	100KHz/1V
SNR5020ZR-680M	68 \pm 20%	0.65	0.70	0.64	0.70	962	740	100KHz/1V
SNR5020ZR-820M	82 \pm 20%	0.65	0.75	0.50	0.60	1158	965	100KHz/1V
SNR5020ZR-101M	100 \pm 20%	0.53	0.58	0.53	0.58	1430	1100	100KHz/1V
SNR5020ZR-151M	150 \pm 20%	0.40	0.45	0.42	0.45	1950	1730	100KHz/1V
SNR5020ZR-201M	200 \pm 20%	0.30	0.33	0.40	0.45	2600	2000	100KHz/1V
SNR5020ZR-221M	220 \pm 20%	0.25	0.28	0.28	0.32	2935	2350	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR5040ZR-R22M	0.22 \pm 20%	7.50	8.20	5.40	6.00	12	9	100KHz/1V
SNR5040ZR-R47M	0.47 \pm 20%	7.40	8.10	5.20	5.90	14	11	100KHz/1V
SNR5040ZR-1R0M	1 \pm 20%	7.35	8.00	4.90	5.00	16	14	100KHz/1V
SNR5040ZR-1R2M	1.2 \pm 20%	6.50	7.00	4.15	4.25	21	16	100KHz/1V
SNR5040ZR-1R5M	1.5 \pm 20%	6.30	6.80	4.30	4.85	20	15	100KHz/1V
SNR5040ZR-1R8M	1.8 \pm 20%	5.50	6.05	4.15	4.30	21	16	100KHz/1V
SNR5040ZR-2R2M	2.2 \pm 20%	4.90	5.50	3.80	4.20	25	22	100KHz/1V
SNR5040ZR-2R7M	2.7 \pm 20%	4.30	4.80	3.60	4.00	29	22	100KHz/1V
SNR5040ZR-3R0M	3 \pm 20%	4.15	4.60	3.60	4.00	29	22	100KHz/1V
SNR5040ZR-3R3M	3.3 \pm 20%	3.95	4.45	3.40	3.90	31	24	100KHz/1V
SNR5040ZR-3R6M	3.6 \pm 20%	3.80	4.40	3.30	3.70	34	26	100KHz/1V
SNR5040ZR-3R9M	3.9 \pm 20%	3.55	4.00	3.20	3.70	35	27	100KHz/1V
SNR5040ZR-4R7M	4.7 \pm 20%	3.50	3.80	3.00	3.30	39	32	100KHz/1V
SNR5040ZR-5R6M	5.6 \pm 20%	3.00	3.70	2.80	3.10	46	38	100KHz/1V
SNR5040ZR-6R8M	6.8 \pm 20%	2.90	3.40	2.50	2.80	56	44	100KHz/1V
SNR5040ZR-8R2M	8.2 \pm 20%	2.70	2.90	2.30	2.60	62	56	100KHz/1V
SNR5040ZR-100M	10 \pm 20%	2.35	2.70	2.10	2.35	83	64	100KHz/1V
SNR5040ZR-150M	15 \pm 20%	2.00	2.20	2.00	2.05	112	90	100KHz/1V
SNR5040ZR-220M	22 \pm 20%	1.60	1.80	1.50	1.60	168	140	100KHz/1V
SNR5040ZR-330M	33 \pm 20%	1.30	1.45	1.20	1.35	244	197	100KHz/1V
SNR5040ZR-470M	47 \pm 20%	1.10	1.20	1.00	1.15	354	289	100KHz/1V
SNR5040ZR-560M	56 \pm 20%	0.95	1.10	0.90	1.05	430	330	100KHz/1V
SNR5040ZR-680M	68 \pm 20%	0.90	1.00	0.80	0.90	520	400	100KHz/1V
SNR5040ZR-101M	100 \pm 20%	0.75	0.85	0.70	0.78	728	560	100KHz/1V
SNR5040ZR-151M	150 \pm 20%	0.65	0.67	0.60	0.70	975	750	100KHz/1V
SNR5040ZR-181M	180 \pm 20%	0.50	0.55	0.46	0.52	990	780	100KHz/1V
SNR5040ZR-221M	220 \pm 20%	0.40	0.44	0.37	0.41	1235	950	100KHz/1V
SNR5040ZR-331M	330 \pm 20%	0.30	0.33	0.28	0.35	2275	1750	100KHz/1V
SNR5040ZR-102M	1000 \pm 20%	0.21	0.25	0.20	0.23	7800	6000	100KHz/1V
SNR5040ZR-202M	2000 \pm 20%	0.12	0.15	0.10	0.14	12350	9500	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR6012ZR-1R0M	1 \pm 20%	3.00	3.90	2.40	2.70	60	50	100KHz/1V
SNR6012ZR-1R5M	1.5 \pm 20%	2.60	3.50	2.10	2.30	80	67	100KHz/1V
SNR6012ZR-2R2M	2.2 \pm 20%	2.10	2.90	1.80	2.10	108	90	100KHz/1V
SNR6012ZR-3R3M	3.3 \pm 20%	1.80	2.50	1.70	1.95	126	105	100KHz/1V
SNR6012ZR-4R7M	4.7 \pm 20%	1.60	2.10	1.55	1.75	150	125	100KHz/1V
SNR6012ZR-5R6M	5.6 \pm 20%	1.50	1.75	1.55	1.75	150	125	100KHz/1V
SNR6012ZR-6R8M	6.8 \pm 20%	1.30	1.60	1.35	1.60	198	165	100KHz/1V
SNR6012ZR-100M	10 \pm 20%	1.00	1.40	1.20	1.38	240	200	100KHz/1V
SNR6012ZR-150M	15 \pm 20%	0.80	1.10	0.80	0.95	354	295	100KHz/1V
SNR6012ZR-220M	22 \pm 20%	0.76	0.90	0.65	0.75	558	465	100KHz/1V
SNR6012ZR-330M	33 \pm 20%	0.59	0.80	0.55	0.67	698	580	100KHz/1V
SNR6012ZR-470M	47 \pm 20%	0.52	0.63	0.46	0.54	1158	965	100KHz/1V
SNR6012ZR-680M	68 \pm 20%	0.44	0.56	0.41	0.45	1392	1160	100KHz/1V
SNR6012ZR-101M	100 \pm 20%	0.35	0.49	0.32	0.38	2004	1670	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR6020ZR-R50N	0.5 \pm 30%	4.50	6.00	4.00	5.00	18	14	100KHz/1V
SNR6020ZR-R68N	0.68 \pm 30%	6.55	7.80	3.80	4.80	22	17	100KHz/1V
SNR6020ZR-R82N	0.82 \pm 30%	5.30	6.30	3.80	4.80	22	17	100KHz/1V
SNR6020ZR-1R0N	1 \pm 30%	4.15	5.00	3.50	4.40	26	20	100KHz/1V
SNR6020ZR-1R2N	1.2 \pm 30%	5.90	7.00	3.20	4.00	29	22	100KHz/1V
SNR6020ZR-1R5N	1.5 \pm 30%	4.25	5.10	3.20	4.00	29	22	100KHz/1V
SNR6020ZR-1R8N	1.8 \pm 30%	4.85	5.80	2.75	3.50	36	28	100KHz/1V
SNR6020ZR-2R0N	2 \pm 30%	4.10	4.90	2.60	3.30	46	35	100KHz/1V
SNR6020ZR-2R2M	2.2 \pm 20%	3.75	4.50	2.75	3.50	36	28	100KHz/1V
SNR6020ZR-2R7M	2.7 \pm 20%	3.90	4.60	2.60	3.30	46	35	100KHz/1V
SNR6020ZR-3R3M	3.3 \pm 20%	3.15	3.70	2.60	3.30	46	35	100KHz/1V
SNR6020ZR-3R9M	3.9 \pm 20%	3.25	3.90	2.10	2.60	64	49	100KHz/1V
SNR6020ZR-4R3M	4.3 \pm 20%	2.70	3.20	2.10	2.60	64	49	100KHz/1V
SNR6020ZR-4R7M	4.7 \pm 20%	3.00	3.60	2.00	2.50	75	58	100KHz/1V
SNR6020ZR-5R6M	5.6 \pm 20%	2.40	2.90	1.90	2.40	75	58	100KHz/1V
SNR6020ZR-6R2M	6.2 \pm 20%	2.30	2.70	1.80	2.30	103	79	100KHz/1V
SNR6020ZR-6R8M	6.8 \pm 20%	2.20	2.60	1.80	2.30	103	79	100KHz/1V
SNR6020ZR-8R2M	8.2 \pm 20%	2.10	2.50	1.40	1.80	137	105	100KHz/1V
SNR6020ZR-100M	10 \pm 20%	1.75	2.10	1.40	1.80	137	105	100KHz/1V
SNR6020ZR-120M	12 \pm 20%	1.45	1.70	1.30	1.60	156	120	100KHz/1V
SNR6020ZR-150M	15 \pm 20%	1.20	1.40	1.20	1.50	189	145	100KHz/1V
SNR6020ZR-180M	18 \pm 20%	1.20	1.40	1.08	1.40	234	180	100KHz/1V
SNR6020ZR-220M	22 \pm 20%	1.05	1.20	1.00	1.30	265	204	100KHz/1V
SNR6020ZR-330M	33 \pm 20%	0.95	1.10	0.84	1.05	390	300	100KHz/1V
SNR6020ZR-470M	47 \pm 20%	0.70	0.90	0.80	0.90	559	430	100KHz/1V
SNR6020ZR-331M	330 \pm 20%	0.27	0.33	0.33	0.39	3419	2630	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR6028ZR-R82M	0.82 \pm 20%	6.50	9.00	5.20	6.00	16	12	100KHz/1V
SNR6028ZR-1R0M	1 \pm 20%	5.75	7.00	5.20	5.70	13	10	100KHz/1V
SNR6028ZR-1R2M	1.2 \pm 20%	6.40	7.50	4.58	5.00	17	13	100KHz/1V
SNR6028ZR-1R5M	1.5 \pm 20%	6.00	6.60	4.58	5.00	17	13	100KHz/1V
SNR6028ZR-2R2M	2.2 \pm 20%	5.10	5.60	3.75	4.10	26	20	100KHz/1V
SNR6028ZR-2R7M	2.7 \pm 20%	3.80	4.10	3.75	4.10	26	20	100KHz/1V
SNR6028ZR-3R3M	3.3 \pm 20%	4.15	4.50	3.48	3.80	33	25	100KHz/1V
SNR6028ZR-3R9M	3.9 \pm 20%	3.50	4.00	3.10	3.40	39	30	100KHz/1V
SNR6028ZR-4R7M	4.7 \pm 20%	3.00	3.30	3.08	3.40	39	30	100KHz/1V
SNR6028ZR-5R1M	5.1 \pm 20%	3.20	3.50	2.60	2.80	56	43	100KHz/1V
SNR6028ZR-6R2M	6.2 \pm 20%	3.05	3.30	2.40	2.60	61	47	100KHz/1V
SNR6028ZR-6R8M	6.8 \pm 20%	2.60	3.00	2.40	2.60	61	47	100KHz/1V
SNR6028ZR-8R2M	8.2 \pm 20%	2.30	2.50	2.25	2.50	72	55	100KHz/1V
SNR6028ZR-9R1M	9.1 \pm 20%	2.55	2.80	2.15	2.40	96	74	100KHz/1V
SNR6028ZR-100M	10 \pm 20%	2.04	2.50	1.95	2.40	94	72	100KHz/1V
SNR6028ZR-120M	12 \pm 20%	1.80	2.00	1.85	2.00	104	80	100KHz/1V
SNR6028ZR-150M	15 \pm 20%	1.75	1.90	1.45	1.60	163	125	100KHz/1V
SNR6028ZR-180M	18 \pm 20%	1.52	1.80	1.45	1.60	156	120	100KHz/1V
SNR6028ZR-220M	22 \pm 20%	1.45	1.80	1.40	1.60	182	140	100KHz/1V
SNR6028ZR-270M	27 \pm 20%	1.50	1.60	1.32	1.40	202	155	100KHz/1V
SNR6028ZR-330M	33 \pm 20%	1.35	1.50	1.22	1.30	241	185	100KHz/1V
SNR6028ZR-360M	36 \pm 20%	1.25	1.40	1.13	1.20	280	215	100KHz/1V
SNR6028ZR-390M	39 \pm 20%	1.25	1.40	1.10	1.20	293	225	100KHz/1V
SNR6028ZR-470M	47 \pm 20%	1.15	1.30	1.06	1.10	410	315	100KHz/1V
SNR6028ZR-560M	56 \pm 20%	1.05	1.20	0.89	1.00	449	345	100KHz/1V
SNR6028ZR-680M	68 \pm 20%	0.80	0.95	0.86	0.95	468	360	100KHz/1V
SNR6028ZR-750M	75 \pm 20%	0.90	0.99	0.81	0.90	533	410	100KHz/1V
SNR6028ZR-820M	82 \pm 20%	0.80	0.88	0.70	0.77	650	500	100KHz/1V
SNR6028ZR-101M	100 \pm 20%	0.65	0.71	0.70	0.77	650	500	100KHz/1V
SNR6028ZR-401M	400 \pm 20%	0.30	0.33	0.40	0.45	2808	2160	100KHz/1V
SNR6028ZR-102M	1000 \pm 20%	0.18	0.22	0.23	0.26	7540	5800	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR6045ZR-R47M	0.47 \pm 20%	15.00	16.50	6.50	6.60	8	6	100KHz/1V
SNR6045ZR-R56M	0.56 \pm 20%	14.00	15.00	6.50	7.50	8	6	100KHz/1V
SNR6045ZR-R68M	0.68 \pm 20%	11.00	12.00	5.70	6.50	8	6	100KHz/1V
SNR6045ZR-R82M	0.82 \pm 20%	10.35	11.00	5.90	6.50	10	8	100KHz/1V
SNR6045ZR-1R0M	1 \pm 20%	9.85	10.00	5.14	5.60	14	11	100KHz/1V
SNR6045ZR-1R5M	1.5 \pm 20%	8.80	9.70	4.95	5.40	16	12	100KHz/1V
SNR6045ZR-1R8M	1.8 \pm 20%	7.60	8.40	4.95	5.40	16	12	100KHz/1V
SNR6045ZR-2R2M	2.2 \pm 20%	6.75	7.40	4.60	5.00	18	14	100KHz/1V
SNR6045ZR-2R7M	2.7 \pm 20%	5.75	6.30	4.30	4.70	20	15	100KHz/1V
SNR6045ZR-3R3M	3.3 \pm 20%	5.90	6.20	3.70	4.00	24	21	100KHz/1V
SNR6045ZR-3R6M	3.6 \pm 20%	5.25	5.70	3.70	4.00	27	21	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR6045ZR-4R2M	4.2 \pm 20%	4.45	4.90	3.50	3.80	30	23	100KHz/1V
SNR6045ZR-4R7M	4.7 \pm 20%	4.97	5.50	3.30	3.60	34	26	100KHz/1V
SNR6045ZR-5R6M	5.6 \pm 20%	4.15	4.60	3.15	3.40	38	29	100KHz/1V
SNR6045ZR-6R8M	6.8 \pm 20%	3.90	4.30	3.00	3.30	40	31	100KHz/1V
SNR6045ZR-8R2M	8.2 \pm 20%	3.90	4.30	2.60	2.80	56	43	100KHz/1V
SNR6045ZR-100M	10 \pm 20%	3.20	3.50	2.45	2.70	62	48	100KHz/1V
SNR6045ZR-120M	12 \pm 20%	2.80	3.00	2.20	2.40	75	58	100KHz/1V
SNR6045ZR-150M	15 \pm 20%	2.50	2.70	2.05	2.20	88	68	100KHz/1V
SNR6045ZR-180M	18 \pm 20%	2.20	2.40	1.85	2.00	105	81	100KHz/1V
SNR6045ZR-220M	22 \pm 20%	2.05	2.20	1.80	2.00	116	89	100KHz/1V
SNR6045ZR-270M	27 \pm 20%	1.90	2.10	1.65	1.80	133	102	100KHz/1V
SNR6045ZR-330M	33 \pm 20%	1.65	1.80	1.45	1.60	178	137	100KHz/1V
SNR6045ZR-470M	47 \pm 20%	1.40	1.50	1.20	1.30	260	208	100KHz/1V
SNR6045ZR-560M	56 \pm 20%	1.30	1.40	1.10	1.20	287	221	100KHz/1V
SNR6045ZR-680M	68 \pm 20%	1.20	1.30	1.00	1.10	376	289	100KHz/1V
SNR6045ZR-101M	100 \pm 20%	0.95	1.00	0.80	0.88	563	433	100KHz/1V
SNR6045ZR-151M	150 \pm 20%	0.80	0.88	0.70	0.77	754	580	100KHz/1V
SNR6045ZR-221M	220 \pm 20%	0.70	0.77	0.59	0.65	1084	834	100KHz/1V
SNR6045ZR-331M	330 \pm 20%	0.57	0.63	0.57	0.63	1651	1270	100KHz/1V
SNR6045ZR-471M	470 \pm 20%	0.50	0.56	0.42	0.48	2340	1800	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR8040ZR-R82M	0.82 \pm 20%	13.80	16.00	6.30	6.90	10	8	100KHz/1V
SNR8040ZR-1R0M	1 \pm 20%	9.85	14.00	6.30	6.90	10	8	100KHz/1V
SNR8040ZR-1R2M	1.2 \pm 20%	10.00	14.00	5.65	6.20	13	10	100KHz/1V
SNR8040ZR-1R5M	1.5 \pm 20%	8.15	11.00	5.65	6.20	13	10	100KHz/1V
SNR8040ZR-2R0M	2 \pm 20%	9.25	10.00	5.15	5.60	16	12	100KHz/1V
SNR8040ZR-2R2M	2.2 \pm 20%	7.10	8.00	5.15	5.60	16	12	100KHz/1V
SNR8040ZR-3R0M	3 \pm 20%	6.10	7.00	4.70	5.20	18	14	100KHz/1V
SNR8040ZR-3R3M	3.3 \pm 20%	6.50	7.00	4.40	4.80	22	17	100KHz/1V
SNR8040ZR-3R6M	3.6 \pm 20%	7.52	8.50	4.35	4.80	22	17	100KHz/1V
SNR8040ZR-3R9M	3.9 \pm 20%	5.75	6.50	4.35	4.80	22	17	100KHz/1V
SNR8040ZR-4R7M	4.7 \pm 20%	5.90	6.50	4.10	4.50	25	19	100KHz/1V
SNR8040ZR-5R1M	5.1 \pm 20%	4.70	5.40	4.05	4.40	25	19	100KHz/1V
SNR8040ZR-5R6M	5.6 \pm 20%	6.00	6.90	3.85	4.20	27	21	100KHz/1V
SNR8040ZR-6R2M	6.2 \pm 20%	4.45	5.10	3.85	4.20	27	21	100KHz/1V
SNR8040ZR-6R8M	6.8 \pm 20%	4.55	5.20	3.60	4.00	31	24	100KHz/1V
SNR8040ZR-8R2M	8.2 \pm 20%	4.20	4.80	3.45	3.80	34	26	100KHz/1V
SNR8040ZR-100M	10 \pm 20%	3.60	4.10	3.30	3.60	38	29	100KHz/1V
SNR8040ZR-120M	12 \pm 20%	3.50	4.00	2.80	3.00	53	41	100KHz/1V
SNR8040ZR-150M	15 \pm 20%	2.95	3.40	2.60	2.80	61	47	100KHz/1V
SNR8040ZR-180M	18 \pm 20%	2.70	3.10	2.40	2.60	69	53	100KHz/1V
SNR8040ZR-220M	22 \pm 20%	2.40	2.70	2.10	2.30	90	69	100KHz/1V
SNR8040ZR-270M	27 \pm 20%	2.15	2.50	2.00	2.20	101	78	100KHz/1V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A)		Irms (A)		DCR (m Ω)		Test Frequency
		Max	Typ	Max	Typ	Max	Typ	
SNR8040ZR-330M	33 \pm 20%	2.05	2.40	1.80	2.00	126	97	100KHz/1V
SNR8040ZR-360M	36 \pm 20%	2.00	2.30	1.75	1.90	133	102	100KHz/1V
SNR8040ZR-390M	39 \pm 20%	1.95	2.20	1.70	1.90	139	107	100KHz/1V
SNR8040ZR-430M	43 \pm 20%	1.90	2.20	1.65	1.80	147	113	100KHz/1V
SNR8040ZR-470M	47 \pm 20%	1.75	2.00	1.55	1.70	177	136	100KHz/1V
SNR8040ZR-510M	51 \pm 20%	1.70	1.90	1.50	1.60	185	142	100KHz/1V
SNR8040ZR-560M	56 \pm 20%	1.55	1.70	1.45	1.60	192	148	100KHz/1V
SNR8040ZR-620M	62 \pm 20%	1.50	1.60	1.30	1.40	237	182	100KHz/1V
SNR8040ZR-680M	68 \pm 20%	1.45	1.60	1.25	1.40	255	196	100KHz/1V
SNR8040ZR-750M	75 \pm 20%	1.35	1.50	1.20	1.30	274	211	100KHz/1V
SNR8040ZR-820M	82 \pm 20%	1.30	1.40	1.15	1.20	293	225	100KHz/1V
SNR8040ZR-910M	91 \pm 20%	1.20	1.30	1.05	1.10	354	272	100KHz/1V
SNR8040ZR-101M	100 \pm 20%	1.15	1.30	1.00	1.10	377	290	100KHz/1V
SNR8040ZR-121M	120 \pm 20%	1.05	1.10	0.95	1.10	434	334	100KHz/1V
SNR8040ZR-151M	150 \pm 20%	1.10	1.20	0.85	0.94	533	410	100KHz/1V
SNR8040ZR-181M	180 \pm 20%	0.95	1.15	0.83	0.92	676	520	100KHz/1V
SNR8040ZR-221M	220 \pm 20%	0.85	0.94	0.80	0.88	779	599	100KHz/1V
SNR8040ZR-331M	330 \pm 20%	0.68	0.75	0.64	0.70	1156	889	100KHz/1V
SNR8040ZR-471M	470 \pm 20%	0.60	0.70	0.50	0.60	1625	1260	100KHz/1V
SNR8040ZR-681M	680 \pm 20%	0.50	0.60	0.45	0.50	2652	2040	100KHz/1V
SNR8040ZR-102M	1000 \pm 20%	0.40	0.50	0.35	0.40	3640	2800	100KHz/1V
SNR8040ZR-152M	1500 \pm 20%	0.32	0.38	0.26	0.27	6500	5000	100KHz/1V

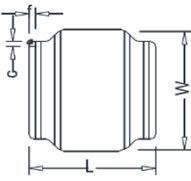
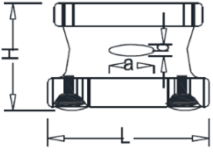
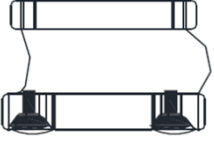
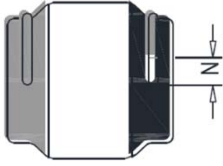

Note : Specifications which provide more details for the proper and safe use of the described product are available upon request. all specifications are subject to change without notice.

Isat : DC Saturation Current that will cause initial inductance to drop approximately 30% max.(at 20°C ambient.)

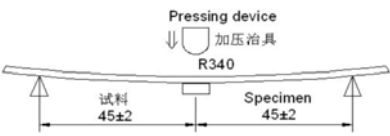
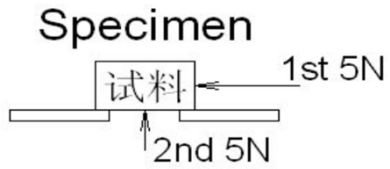
Irms : DC Current that will cause an approximate Δ T of 40 °C. (at 20°C ambient.)

Test Instrument : LCR(CH1062/HP4284A) \ DCR(TH2511/CH502BC) \ IDC(CH1320) or equivalent.

⊕ Visual Inspection Standard of Product

No.	Defect Item	Figure	Rejection Identification	Acceptance
1	Core Defect		The defect length (c or f) more than L/6 or W/L, NG	AQL = 0.65
2	Starvation		(1)Resin starved length a more than L/2, NG (2)When $L > 2mm$, $b > H/2$,NG (3)When $L \leq 2mm$,b don't control.	AQL = 0.65
3	Excessive glue		The length, width or height of product beyond specified value, NG	AQL = 0.65
4	Cold Solder		(1)For SNR2520XX Series, Cold solder $N > 0.5mm$, NG (2)For other series, cold solder $N > 1mm$, NG	AQL = 0.65
5	Marking Defect		The marking angle $\alpha > 45^\circ$,NG	AQL = 0.65

⊕ General Characteristics

項目 Item	Conditions	Specification
温度特性 Temperature drift	在温度-40 ~ + 125°C之间测试。 To be measured in the range of -40°C to 125°C.	Inductance temperature coefficient 2000 ppm/°C or less
保存温度范围 Storage Temperature	在包装的状态下。 With taping.	- 40°C ~ + 125°C
使用温度范围 Operating Temperature	包括制品的发热温度。 Including self temperature rise.	- 40°C ~ + 125°C
弯曲测试 Bending test	<p>试件焊接在基板上，按箭头方向以大约0.5mm/秒的速度加压，直到基板变形幅度到3mm 保持30 秒。</p> <p>Apply pressure gradually in the direction of the arrow at a rate of about 0.5mm/s until bent depth reaches 3mm and hold for 30±5s.</p>  <p>基板Board: 40*100mm 厚Thickness: 1.0mm</p>	Change from an initial value L : within±10%
固着强度 Adhesion strength	<p>按箭头方向用R0.5 的加压棒在试件中施加一定的静力并保持60±5秒。</p> <p>A static load using a R0.5 pressing tool shall be applied the arrow and to the body of the specimen in the direction of the arrow and shall be hold for 60±5s. Measure after removing pressure.</p> 	Change from an initial value L : within±10%

耐振性 Vibration	<p>振动频率10~55~10Hz, 振幅1.5mm, 分X,Y,Z 方向各振动1 小时 (共3 小时) 。</p> <p>The specimen shall be subjected to a vibration of 1.5mm amplitude, sweep frequency 10~55Hz (10Hz to 55Hz to 10Hz in a period of one minute) for 1 h in each of 3(X,Y,Z) axes.</p>	Change from an initial value L : within±10%
耐冲击性 Mechanical shock	<p>利用橡胶块式落下冲击试验机，分别在3 个互相垂直的方向以981m/S² 的冲击加速度落下。</p> <p>Peak acceleration: 981 m/S² Duration of pulse: 6ms 3 times in each of 3(X,Y,Z)axes. The specimen must be fixed on test board. Three successive shock shall be applied in the perpendicular direction of each surface of the specimen.</p>	Change from an initial value L : within±10%
自然落下试验 Free fall test	<p>试件安装在基板上，并固定在重500 克的盒中，由1 米高自由落体，3 个互相垂直的方向各3 次。</p> <p>The specimen must be fixed on test board. It must be equipped with instruments of which weight is 500g. Then it shall be fallen freely from 1m height to rigid wood 3 times in each of three axes.</p>	Change from an initial value L : within±10%
焊锡附着性 Solder ability	<p>试验品的电极深布松香后，在5 ~ 10 秒内焊锡，焊锡槽温度245±5℃，时间：3±0.5 秒。</p> <p>Terminals shall be immersed for 5 to 10 seconds in flux at room temperature. Dip sample into solder bath containing molten solder at 245±5°C for 3±0.5 seconds.</p>	90%以上的面积要被覆盖。 New solder shall cover 90% minimum of the surface immersed.
耐电压 Dielectric strength	<p>在电极与磁材之间加入直流电压100V 通电时间1 分钟。</p> <p>100V DC shall be applied for 60s between the terminal and the core.</p>	没有损害。 Without damage.

<p>焊锡耐热性 Resistance to soldering heat</p>	<p>试验方法Test method 热风炉焊接Reflow soldering method 预热Preheat 150~180°C 90±30s 峰值温度Peak temp 250(+ 5,-0)°C (230°Cmin , 30±10s) 试验板的厚度0.8mm 上按上面条件通过两次热风炉。</p> <p>The specimen shall be subjected to the reflow process under the above condition 2 times.Test board shall be 0.8mm thick. Base material shall be glass epoxy resin.</p> <p>测定Measurement 常温常湿中放置于1 小时以上测试。 The specimen shall be stored at standard atmospheric conditions for 1 h in prior to the measurement.</p>	<p>Change from an initial value L : within±10%</p>
<p>绝缘抵抗 Insulation resistance</p>	<p>在电极与磁材之间加入直流电压100V。</p> <p>100V DC shall be applied between the terminal and the core.</p>	<p>100mΩ 以上 100mΩ or more.</p>
<p>耐寒性 Low temperature</p>	<p>在温度-40±3°C中放置500±12 小时后，常温常湿中放置1 小时以上2 小时以内测试。</p> <p>The specimen shall be stored at a temperature of -40 ±3°C for 500 ±12h. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement Measurement shall be made within 1h.</p>	<p>Change from an initial value L : within±10%</p>
<p>耐热性 Dry heat</p>	<p>在温度125±2°C中放置500±12 小时后，常温常湿中放置1 小时以上2 小时以内测试。</p> <p>The specimen shall be stored at a temperature of 125 ± 2°C for 500± 12h. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h.</p>	<p>Change from an initial value L : within±10%</p>

耐湿性 Dump heat	<p>在温度$60\pm 2^{\circ}\text{C}$·湿度$90\sim 95\%$中放置500 ± 12小时后·常温常湿中放置1小时以上2小时以内测试。</p> <p>The specimen shall be stored at a temperature of $60\pm 2^{\circ}\text{C}$ with relative humidity of $90\sim 95\%$ for $500\pm 2\text{h}$. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h.</p>	Change from an initial value L : within $\pm 10\%$
温度循环 Temperature cycle	<p>以温度-40°C中放置30分钟·在125°C放置30分钟·中间转换时间不超过2分钟为一个循环·完成500个循环后·常温常湿中放置1小时以上2小时以内测试。</p> <p>The specimen shall be subjected to 500 continuous cycles of temperature change of -40°C for 30 min and 125°C for 30 min with the transit period of 2min or less. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h.</p>	Change from an initial value L : within $\pm 10\%$

标准状态Standard atmospheric conditions

Unless otherwise specified, the standard range of atmospheric conditions in making measurements and test as follows;

Ambient temperature : 5°C to 35°C , Relative humidity: 45% to 85%, Air pressure: 86kPa to 106kPa

If more strict measurement is required, measurement shall be made within following limits;

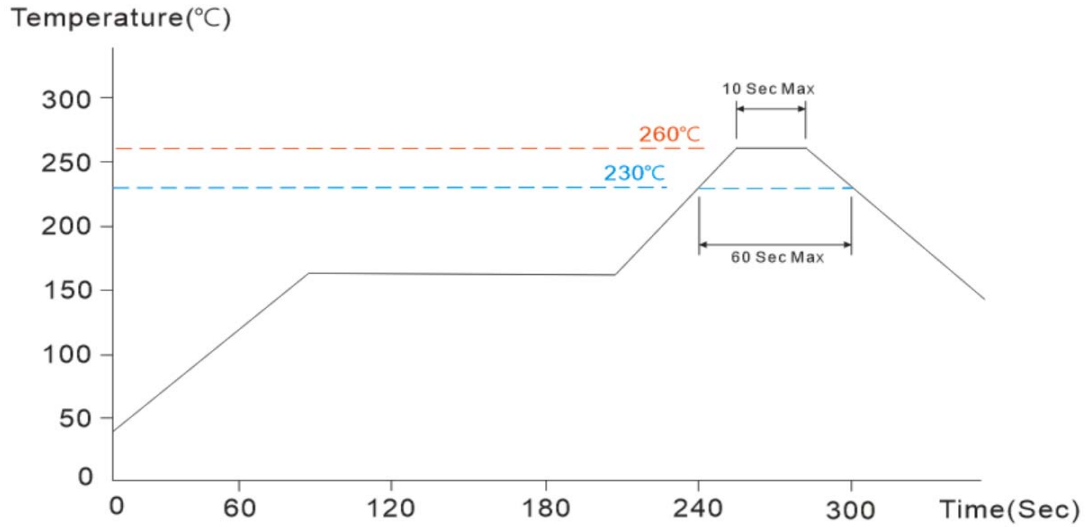
Ambient temperature : $20\pm 2^{\circ}\text{C}$, Relative humidity: $65\pm 5\%$, Air pressure: 86kPa to 106kPa

禁用物质Prohibited Substances

我公司保证我司的产品和生产过程符合“RoHS 规则”·所有产品中使用的材料均是化学物质生产规则中登记的材料。

We confirm that our products and our production process accord with "rule of RoHS". All materials used in this product are registered material under the law concerning the examination and Regulation of Manufacture of Chemical Substances.

⊕ Reflow Soldering Heat Endurance

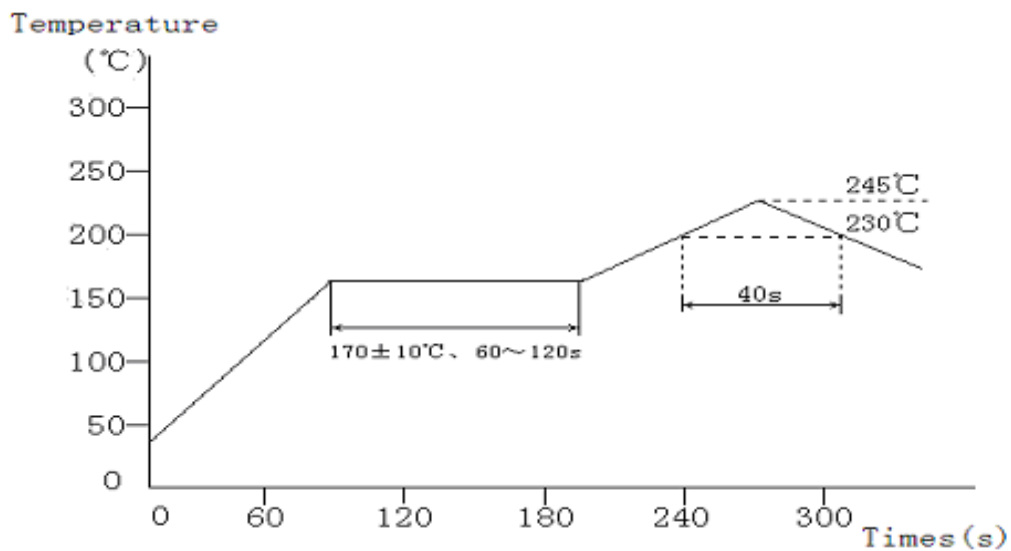


No mechanical and electrical defects are found after testing based on the above profile and keeping under the conditions of room temperature and humidity for 2 hours.

Twice reflow test is acceptable with the test interval remaining 1 hour under the normal conditions.

The reflow test profile may vary with the testing instruments.

⊕ Recommended Reflow Conditions

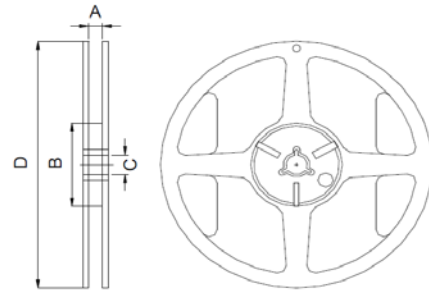
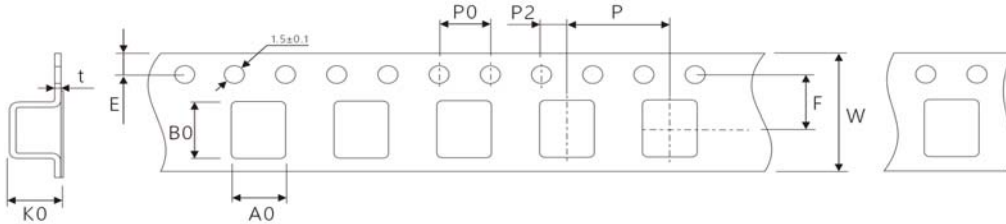


The recommended reflow profile is based on the testing instruments used. Solder ability will depend on the testing equipments, reflow conditions, testing method, etc. So it is necessary to make a confirmation of them when the reflow conditions are set up.

However halogen lamp shall be used, side heat will be beyond range of resistance heat, so we can't recommend it.

⊕ Reel Dimension(m/m)

Item	A	B	C	D
SNR30_ZR	8±1	72±1	13±1	178±1
SNR40_ZR	12.4±1	100±1	13±1	330±1
SNR50_ZR	12.4±1	100±1	13±1	330±1
SNR60_ZR	16.4±1	100±1	13±1	330±1
SNR80_ZR	16.4±1	100±1	13±1	330±1


⊕ Taping Dimension(m/m)


Item	W	Ao	Bo	Ko	E	F	P	P0	P2	t
SNR3010ZR	8±0.3	3.3±0.1	3.3±0.1	1.2±0.1	1.75±0.1	3.5±0.1	4±0.1	4±0.1	2±0.1	0.22±0.05
SNR3012ZR	8±0.3	3.3±0.1	3.3±0.1	1.6±0.1	1.75±0.1	3.5±0.1	4±0.1	4±0.1	2±0.1	0.22±0.05
SNR3015ZR	8±0.3	3.3±0.1	3.3±0.1	1.6±0.1	1.75±0.1	3.5±0.1	4±0.1	4±0.1	2±0.1	0.22±0.05
SNR4012ZR	12±0.3	4.3±0.1	4.3±0.1	1.4±0.1	1.75±0.1	5.5±0.1	8±0.1	4±0.1	2±0.1	0.35±0.05
SNR4018ZR	12±0.3	4.35±0.1	4.35±0.1	1.95±0.1	1.75±0.1	5.5±0.1	8±0.1	4±0.1	2±0.1	0.35±0.05
SNR4020ZR	12±0.3	4.3±0.1	4.3±0.1	2.2±0.1	1.75±0.1	5.5±0.1	8±0.1	4±0.1	2±0.1	0.35±0.05
SNR4030ZR	12±0.3	4.3±0.1	4.3±0.1	3.2±0.1	1.75±0.1	5.5±0.1	8±0.1	4±0.1	2±0.1	0.35±0.05
SNR5020ZR	12±0.3	5.3±0.1	5.3±0.1	2.2±0.1	1.75±0.1	5.5±0.1	8±0.1	4±0.1	2±0.1	0.4±0.05
SNR5040ZR	12±0.3	5.3±0.1	5.3±0.1	4.2±0.1	1.75±0.1	5.5±0.1	8±0.1	4±0.1	2±0.1	0.4±0.05
SNR6012ZR	16±0.3	6.4±0.1	6.4±0.1	1.4±0.1	1.75±0.1	7.5±0.1	8±0.1	4±0.1	2±0.1	0.4±0.05
SNR6020ZR	16±0.3	6.4±0.1	6.4±0.1	2.2±0.1	1.75±0.1	7.5±0.1	8±0.1	4±0.1	2±0.1	0.4±0.05
SNR6028ZR	16±0.3	6.4±0.1	6.4±0.1	3.0±0.1	1.75±0.1	7.5±0.1	8±0.1	4±0.1	2±0.1	0.4±0.05
SNR6045ZR	16±0.3	6.4±0.1	6.4±0.1	4.7±0.1	1.75±0.1	7.5±0.1	8±0.1	4±0.1	2±0.1	0.4±0.05
SNR8040ZR	16±0.3	8.4±0.1	8.4±0.1	4.7±0.1	1.75±0.1	7.5±0.1	12±0.1	4±0.1	2±0.1	0.4±0.05

⊕ Packaging Carton

Item	Reel Packing	Inner Box Packing	Carton Packing
SNR3010ZR	2,000 PCS / Reel	20,000 PCS / Box	120,000 PCS / Box
SNR3012ZR	2,000 PCS / Reel	20,000 PCS / Box	120,000 PCS / Box
SNR3015ZR	2,000 PCS / Reel	10,000 PCS / Box	60,000 PCS / Box
SNR4012ZR	4,500 PCS / Reel	18,000 PCS / Box	54,000 PCS / Box
SNR4018ZR	3,000 PCS / Reel	9,000 PCS / Box	18,000 PCS / Box
SNR4020ZR	3,000 PCS / Reel	9,000 PCS / Box	18,000 PCS / Box
SNR4030ZR	2,000 PCS / Reel	6,000 PCS / Box	12,000 PCS / Box
SNR5020ZR	3,000 PCS / Reel	9,000 PCS / Box	18,000 PCS / Box
SNR5040ZR	1,500 PCS / Reel	4,500 PCS / Box	9,000 PCS / Box
SNR6012ZR	3,000 PCS / Reel	12,000 PCS / Box	24,000 PCS / Box
SNR6020ZR	3,000 PCS / Reel	9,000 PCS / Box	18,000 PCS / Box
SNR6028ZR	2,000 PCS / Reel	6,000 PCS / Box	12,000 PCS / Box
SNR6045ZR	1,500 PCS / Reel	6,000 PCS / Box	12,000 PCS / Box
SNR8040ZR	1,000 PCS / Reel	3,000 PCS / Box	9,000 PCS / Box

⊕ Taping method
