FEATURES

- Magnetic-resin shielded Construction reduces buzz noise to ultra-low levels.
- Metallization on ferrite core results in excellent shock resistance anddamage-free durability.
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI).
- 30% higher current rating than conventional inductors of equal size.
- Takes up less PCB real estate and save more power.
- Operating Temp：-45℃~+125℃(Including self heating).



APPLICATIONS

- Smart phone, smart TV, set top box, notebook, VR,AR, LED lighting.
- Car navigation systems, telecomm base stations.

PART NUMBERING

ANR	252012	T	4R7	M
①	②	③	④	⑤

① Series Name	
ANR	Wire Wound SMD Power Inductors

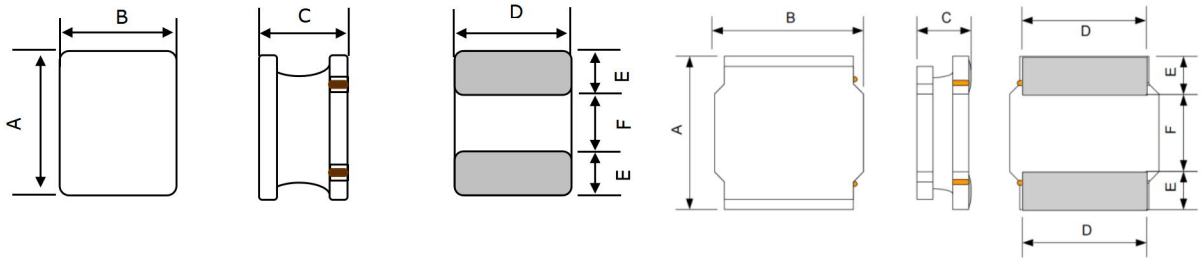
③ Feature Type	
T	Standard

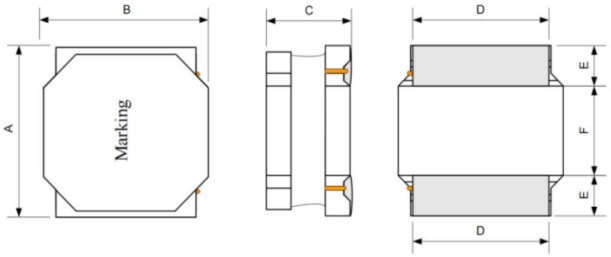
④ Nominal Inductance	
Code (example)	Nominal Inductance［μH］
R47	0.47
1R0	1.0
100	10

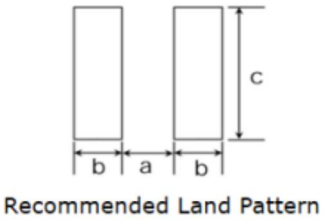
⑤ Inductance Tolerance	
K	±10%
M	±20%
N	±30%

② External Dimensions [LxWxH mm]	
252010	2.5×2.0×1.0
252012	2.5×2.0×1.2
3010	3.0×3.0×1.0
3012	3.0×3.0×1.2
3015	3.0×3.0×1.5
4010	4.0×4.0×1.0
4012	4.0×4.0×1.2
4018	4.0×4.0×1.8
4020	4.0×4.0×2.0
4026	4.0×4.0×2.6
4030	4.0×4.0×3.0
5012	5.0×5.0×1.2
5020	5.0×5.0×2.0
5040	5.0×5.0×4.0
5045	5.0×5.0×4.5
6020	6.0×6.0×2.0
6028	6.0×6.0×2.8
6045	6.0×6.0×4.5
8040	8.0×8.0×4.0
8065	8.0×8.0×6.5

DIMENSIONS & RECOMMENDED LAND PATTERN







Recommended Land Pattern

Unit: mm

Dimensions							Recommended Land Pattern		
Series	A	B	C	D Typ.	E Typ.	F Typ.	a Typ.	b Typ.	c Typ.
ANR252010	2.5±0.2	2.0±0.2	1.0 Max.	2.00	0.75	1.00	0.80	0.85	2.20
ANR252012	2.5±0.2	2.0±0.2	1.2 Max.	2.00	0.75	1.00	0.80	0.85	2.20
ANR3010	3.0±0.2	3.0±0.2	1.0±0.2	2.50	0.75	1.50	1.50	0.80	2.70
ANR3012	3.0±0.2	3.0±0.2	1.2 Max.	2.50	0.75	1.50	1.50	0.80	2.70
ANR3015	3.0±0.2	3.0±0.2	1.5 Max.	2.50	0.75	1.50	1.50	0.80	2.70
ANR4010	4.0±0.2	4.0±0.2	1.0±0.2	3.30	1.10	1.80	1.90	1.10	3.70
ANR4012	4.0±0.2	4.0±0.2	1.2 Max.	3.30	1.10	1.80	1.90	1.10	3.70
ANR4018	4.0±0.2	4.0±0.2	1.8 Max.	3.30	1.10	1.80	1.90	1.10	3.70
ANR4020	4.0±0.2	4.0±0.2	2.0 Max.	3.30	1.10	1.80	1.90	1.10	3.70
ANR4026	4.0±0.2	4.0±0.2	2.6 Max.	3.30	1.10	1.80	1.90	1.10	3.70
ANR4030	4.0±0.2	4.0±0.2	3.0 Max.	3.30	1.10	1.80	1.90	1.10	3.70
ANR5012	5.0±0.2	5.0±0.2	1.2 Max.	4.00	1.40	2.20	2.30	1.40	4.20
ANR5020	5.0±0.2	5.0±0.2	2.0 Max.	4.00	1.40	2.20	2.30	1.40	4.20
ANR5040	5.0±0.2	5.0±0.2	4.0 Max.	4.00	1.40	2.20	2.30	1.40	4.20
ANR5045	5.0±0.2	5.0±0.2	4.5 Max.	4.00	1.40	2.20	2.30	1.40	4.20
ANR6020	6.0±0.3	6.0±0.3	2.0 Max.	4.90	1.70	2.60	2.80	1.70	5.70
ANR6028	6.0±0.3	6.0±0.3	2.8 Max.	4.90	1.70	2.60	2.80	1.70	5.70
ANR6045	6.0±0.3	6.0±0.3	4.5 Max.	4.90	1.70	2.60	2.80	1.70	5.70
ANR8040	8.0±0.3	8.0±0.3	4.2 Max.	6.30	2.00	4.00	3.80	2.20	7.50
ANR8065	8.0±0.3	8.0±0.3	6.5 Max.	6.30	2.00	4.00	3.80	2.20	7.50

- All products are printed with Marking except the 252010 & 252012 series.

ELECTRICAL CHARACTERISTICS

ANR252010 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR252010TR47□	0.47	N / M	0.055	2.39	2.56	2.54	3.35
ANR252010TR56□	0.56	N / M	0.071	2.03	2.18	2.94	3.20
ANR252010TR68□	0.68	N / M	0.073	2.03	2.18	2.23	2.75
ANR252010T1R0□	1	N / M	0.107	1.67	1.80	1.88	2.20
ANR252010T1R5□	1.5	N / M	0.180	1.32	1.42	1.83	2.10
ANR252010T2R2□	2.2	N / M	0.207	1.22	1.31	1.22	1.60
ANR252010T3R3M	3.3	M	0.325	0.91	0.98	1.07	1.30
ANR252010T4R7M	4.7	M	0.557	0.71	0.76	0.96	1.15
ANR252010T5R6M	5.6	M	0.557	0.74	0.80	0.81	0.95
ANR252010T6R8M	6.8	M	0.887	0.60	0.64	0.79	0.92
ANR252010T100M	10	M	1.081	0.51	0.55	0.66	0.78
ANR252010T220M	22	M	1.625	0.45	0.50	0.40	0.48

ANR252012 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR252012TR47□	0.47	N / M	0.060	2.18	2.34	3.88	4.27
ANR252012TR68□	0.68	N / M	0.073	1.98	2.13	3.33	3.68
ANR252012T1R0□	1	N / M	0.089	1.96	2.10	2.63	2.90
ANR252012T1R2□	1.2	N / M	0.128	1.48	1.59	2.42	2.67
ANR252012T1R5□	1.5	N / M	0.146	1.42	1.53	2.27	2.51
ANR252012T2R2□	2.2	N / M	0.214	1.17	1.25	1.88	2.07
ANR252012T2R7M	2.7	M	0.237	1.11	1.19	1.75	1.92
ANR252012T3R3M	3.3	M	0.261	1.06	1.13	1.63	1.80
ANR252012T3R6M	3.6	M	0.345	0.91	0.98	1.48	1.64
ANR252012T4R3M	4.3	M	0.373	0.88	0.95	1.39	1.53
ANR252012T4R7M	4.7	M	0.373	0.85	0.92	1.14	1.25
ANR252012T5R1M	5.1	M	0.495	0.76	0.82	1.25	1.37
ANR252012T5R6M	5.6	M	0.533	0.74	0.80	1.13	1.25
ANR252012T6R2M	6.2	M	0.537	0.74	0.80	1.05	1.16
ANR252012T6R8M	6.8	M	0.575	0.70	0.75	0.99	1.09
ANR252012T7R5M	7.5	M	0.605	0.69	0.74	0.98	1.09
ANR252012T8R2M	8.2	M	0.651	0.66	0.71	0.99	1.10
ANR252012T9R1M	9.1	M	0.683	0.63	0.68	0.92	1.02
ANR252012T100M	10	M	0.683	0.63	0.68	0.80	0.88
ANR252012T120M	12	M	1.064	0.52	0.56	0.79	0.88
ANR252012T150M	15	M	1.575	0.43	0.46	0.69	0.77

ELECTRICAL CHARACTERISTICS

ANR252012 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR252012T220M	22	M	1.956	0.39	0.41	0.54	0.59

ANR3010 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR3010T1R0□	1	N / M	0.084	1.47	1.80	1.42	2.10
ANR3010T1R2□	1.2	N / M	0.084	1.47	1.80	1.27	1.70
ANR3010T1R5□	1.5	N / M	0.103	1.32	1.60	1.29	1.70
ANR3010T2R2□	2.2	N / M	0.142	1.11	1.40	1.17	1.50
ANR3010T2R7□	2.7	N / M	0.167	1.04	1.40	1.02	1.20
ANR3010T3R3□	3.3	N / M	0.187	0.97	1.20	0.98	1.20
ANR3010T3R6M	3.6	M	0.213	0.91	1.10	0.96	1.20
ANR3010T4R7M	4.7	M	0.290	0.78	1.10	0.76	1.05
ANR3010T5R6M	5.6	M	0.319	0.71	1.05	0.59	0.65
ANR3010T6R8M	6.8	M	0.393	0.67	0.96	0.56	0.72
ANR3010T8R2M	8.2	M	0.515	0.59	0.70	0.56	0.70
ANR3010T100M	10	M	0.515	0.59	0.70	0.56	0.75
ANR3010T120M	12	M	0.650	0.53	0.67	0.44	0.65
ANR3010T150M	15	M	0.785	0.48	0.57	0.43	0.57
ANR3010T220M	22	M	1.197	0.39	0.52	0.36	0.48
ANR3010T270M	27	M	1.390	0.36	0.50	0.30	0.45
ANR3010T330M	33	M	1.995	0.30	0.55	0.29	0.42
ANR3010T390M	39	M	2.252	0.28	0.53	0.28	0.38
ANR3010T430M	43	M	2.317	0.27	0.52	0.23	0.36
ANR3010T470M	47	M	2.510	0.26	0.52	0.22	0.35
ANR3010T510M	51	M	2.831	0.25	0.48	0.21	0.33
ANR3010T560M	56	M	2.986	0.24	0.35	0.21	0.28

ELECTRICAL CHARACTERISTICS

● ANR3012 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR3012TR22□	0.22	N / M	0.022	3.05	3.30	5.38	6.00
ANR3012TR82□	0.82	N / M	0.039	2.51	3.00	2.08	2.80
ANR3012T1R0□	1	N / M	0.052	2.23	2.70	1.90	2.80
ANR3012T1R2□	1.2	N / M	0.058	2.04	2.20	2.25	2.50
ANR3012T1R5□	1.5	N / M	0.078	2.04	2.20	1.64	1.90
ANR3012T1R8□	1.8	N / M	0.081	1.67	1.80	1.32	1.90
ANR3012T2R2□	2.2	N / M	0.098	1.57	1.70	1.22	1.90
ANR3012T2R4□	2.4	N / M	0.087	1.62	1.70	1.17	1.50
ANR3012T2R7M	2.7	M	0.109	1.50	1.50	1.16	1.50
ANR3012T3R3M	3.3	M	0.130	1.38	1.40	1.07	1.50
ANR3012T3R6M	3.6	M	0.129	1.38	1.40	1.07	1.50
ANR3012T3R9M	3.9	M	0.187	1.26	1.30	1.02	1.30
ANR3012T4R7M	4.7	M	0.156	1.26	1.30	0.91	1.00
ANR3012T6R8M	6.8	M	0.247	0.99	1.10	0.76	0.90
ANR3012T100M	10	M	0.345	0.84	0.90	0.61	0.88
ANR3012T120M	12	M	0.445	0.74	0.84	0.49	0.67
ANR3012T150M	15	M	0.468	0.72	0.77	0.46	0.62
ANR3012T180M	18	M	0.702	0.59	0.65	0.44	0.59
ANR3012T220M	22	M	0.839	0.54	0.59	0.43	0.52
ANR3012T270M	27	M	1.120	0.48	0.51	0.36	0.48
ANR3012T330M	33	M	1.138	0.47	0.50	0.37	0.46
ANR3012T360M	36	M	1.223	0.45	0.48	0.35	0.44
ANR3012T390M	39	M	1.712	0.38	0.41	0.30	0.39
ANR3012T470M	47	M	1.885	0.36	0.40	0.27	0.35
ANR3012T560M	56	M	1.776	0.28	0.40	0.26	0.33
ANR3012T680M	68	M	2.149	0.33	0.37	0.24	0.29
ANR3012T820M	82	M	3.269	0.27	0.31	0.17	0.27
ANR3012T101M	100	M	3.681	0.25	0.29	0.21	0.23

ELECTRICAL CHARACTERISTICS

● ANR3015 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR3015TR50□	0.5	N / M	0.039	2.64	2.80	3.96	4.20
ANR3015T1R0□	1	N / M	0.039	2.39	2.50	2.35	2.80
ANR3015T1R2□	1.2	N / M	0.051	1.98	2.30	2.24	3.10
ANR3015T1R5□	1.5	N / M	0.065	1.73	2.20	2.33	2.70
ANR3015T1R8□	1.8	N / M	0.065	1.73	2.20	1.78	2.20
ANR3015T2R2□	2.2	N / M	0.078	1.62	2.00	1.62	2.00
ANR3015T2R7□	2.7	N / M	0.097	1.45	1.90	1.54	1.90
ANR3015T3R3M	3.3	M	0.104	1.38	1.60	1.34	1.81
ANR3015T3R6M	3.6	M	0.136	1.22	1.50	1.30	1.60
ANR3015T3R9M	3.9	M	0.136	1.22	1.50	1.22	1.40
ANR3015T4R3M	4.3	M	0.149	1.16	1.30	1.22	1.40
ANR3015T4R7M	4.7	M	0.163	1.11	1.30	1.12	1.40
ANR3015T5R1M	5.1	M	0.171	1.07	1.20	1.02	1.20
ANR3015T5R6M	5.6	M	0.245	0.87	1.05	1.02	1.15
ANR3015T6R2M	6.2	M	0.251	0.87	1.00	1.02	1.20
ANR3015T6R8M	6.8	M	0.260	0.86	1.10	0.86	1.10
ANR3015T100M	10	M	0.325	0.78	0.90	0.73	0.92
ANR3015T120M	12	M	0.412	0.69	0.89	0.71	0.90
ANR3015T150M	15	M	0.455	0.66	0.72	0.67	0.88
ANR3015T180M	18	M	0.553	0.60	0.72	0.57	0.72
ANR3015T220M	22	M	0.598	0.58	0.69	0.53	0.68
ANR3015T270M	27	M	0.940	0.46	0.56	0.49	0.56
ANR3015T330M	33	M	1.066	0.44	0.51	0.45	0.53
ANR3015T390M	39	M	1.281	0.40	0.44	0.42	0.55
ANR3015T430M	43	M	1.364	0.38	0.48	0.38	0.43
ANR3015T470M	47	M	1.625	0.36	0.44	0.36	0.43
ANR3015T560M	56	M	1.664	0.35	0.41	0.33	0.42
ANR3015T620M	62	M	2.072	0.30	0.41	0.30	0.40
ANR3015T680M	68	M	3.475	0.23	0.31	0.28	0.37
ANR3015T101M	100	M	4.003	0.21	0.25	0.23	0.25
ANR3015T151M	150	M	4.891	0.19	0.23	0.18	0.22
ANR3015T221M	220	M	5.810	0.35	0.40	0.16	0.20

ELECTRICAL CHARACTERISTICS

ANR4010 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR4010T1R0□	1	N / M	0.083	1.93	2.40	2.03	2.30
ANR4010T1R5□	1.5	N / M	0.125	1.73	2.00	1.71	2.00
ANR4010T2R2M	2.2	M	0.143	1.52	2.00	1.22	1.50
ANR4010T3R3M	3.3	M	0.160	1.42	1.80	1.12	1.40
ANR4010T4R7M	4.7	M	0.240	1.22	1.50	0.96	1.10
ANR4010T6R8M	6.8	M	0.360	1.02	1.20	0.81	0.95
ANR4010T8R2M	8.2	M	0.396	1.35	1.50	1.00	1.15
ANR4010T100M	10	M	0.480	0.76	1.00	0.63	0.75
ANR4010T150M	15	M	0.612	0.61	0.85	0.55	0.61
ANR4010T220M	22	M	1.021	0.51	0.75	0.46	0.52
ANR4010T470M	47	M	2.018	0.30	0.50	0.40	0.45

ANR4012 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR4012TR82□	0.82	N / M	0.064	1.67	2.50	3.07	3.30
ANR4012T1R0□	1	N / M	0.065	1.67	2.50	2.65	3.20
ANR4012T1R5□	1.5	N / M	0.085	1.48	2.20	2.13	2.70
ANR4012T1R8□	1.8	N / M	0.104	1.34	1.90	2.15	2.60
ANR4012T2R2□	2.2	N / M	0.104	1.34	1.90	1.79	2.30
ANR4012T2R7□	2.7	N / M	0.116	1.27	1.70	1.93	2.30
ANR4012T3R3□	3.3	N / M	0.143	1.14	1.60	1.75	2.10
ANR4012T3R6□	3.6	N / M	0.142	1.14	1.60	1.22	1.70
ANR4012T4R3□	4.3	N / M	0.180	1.02	1.50	1.60	1.70
ANR4012T4R7□	4.7	N / M	0.163	1.07	1.50	1.17	1.80
ANR4012T5R1□	5.1	N / M	0.199	0.96	1.50	1.57	1.60
ANR4012T5R6□	5.6	N / M	0.182	1.02	1.20	1.02	1.60
ANR4012T6R8M	6.8	M	0.257	0.85	1.20	0.86	1.40
ANR4012T100M	10	M	0.345	0.78	1.00	0.81	1.10
ANR4012T120M	12	M	0.373	0.71	0.95	0.67	1.00
ANR4012T150M	15	M	0.442	0.65	0.85	0.57	0.80
ANR4012T180M	18	M	0.605	0.56	0.80	0.56	0.75
ANR4012T220M	22	M	0.763	0.50	0.75	0.47	0.70
ANR4012T270M	27	M	0.927	0.46	0.60	0.51	0.70
ANR4012T330M	33	M	1.053	0.43	0.58	0.43	0.60
ANR4012T360M	36	M	1.158	0.41	0.56	0.41	0.50
ANR4012T390M	39	M	1.416	0.38	0.50	0.56	0.66

ELECTRICAL CHARACTERISTICS

ANR4012 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR4012T470M	47	M	1.430	0.38	0.50	0.36	0.50
ANR4012T560M	56	M	1.609	0.33	0.46	0.33	0.45
ANR4012T680M	68	M	2.510	0.27	0.45	0.39	0.45
ANR4012T820M	82	M	2.754	0.26	0.36	0.28	0.40
ANR4012T101M	100	M	2.844	0.25	0.35	0.25	0.30

ANR4018 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR4018TR47□	0.47	N / M	0.018	4.06	4.50	4.36	5.20
ANR4018TR68□	0.68	N / M	0.026	3.35	3.80	4.97	5.60
ANR4018T1R0□	1	N / M	0.033	2.03	3.30	4.87	5.20
ANR4018T1R5□	1.5	N / M	0.042	1.83	3.20	3.40	4.00
ANR4018T1R8□	1.8	N / M	0.044	2.03	2.80	3.05	3.40
ANR4018T2R2□	2.2	N / M	0.058	1.67	2.60	2.74	3.20
ANR4018T3R3M	3.3	M	0.090	1.25	2.10	2.49	2.90
ANR4018T4R7M	4.7	M	0.116	1.22	1.80	1.73	2.20
ANR4018T6R8M	6.8	M	0.142	1.08	1.50	1.47	2.00
ANR4018T100M	10	M	0.232	0.85	1.20	1.32	1.60
ANR4018T150M	15	M	0.322	0.66	1.00	0.95	1.10
ANR4018T220M	22	M	0.463	0.60	0.85	0.81	0.88
ANR4018T330M	33	M	0.682	0.50	0.72	0.57	0.75
ANR4018T470M	47	M	0.837	0.43	0.65	0.58	0.70
ANR4018T680M	68	M	1.287	0.32	0.52	0.48	0.51
ANR4018T101M	100	M	2.252	0.25	0.41	0.41	0.44
ANR4018T151M	150	M	3.218	0.22	0.36	0.31	0.34
ANR4018T221M	220	M	5.148	0.17	0.27	0.27	0.30

ELECTRICAL CHARACTERISTICS

● ANR4020 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR4020TR24M	0.24	M	0.014	4.57	5.20	10.66	12.50
ANR4020TR33□	0.33	N / M	0.016	3.35	4.90	7.61	8.50
ANR4020TR47□	0.47	N / M	0.029	3.35	3.70	7.11	7.50
ANR4020TR68□	0.68	N / M	0.036	2.84	3.30	6.50	6.60
ANR4020T1R0□	1	N / M	0.038	2.18	3.20	4.85	5.20
ANR4020T1R2□	1.2	N / M	0.038	2.18	3.20	5.18	5.60
ANR4020T1R5□	1.5	N / M	0.046	2.01	3.00	4.52	4.90
ANR4020T2R2□	2.2	N / M	0.051	1.88	2.80	3.45	3.70
ANR4020T3R3□	3.3	N / M	0.090	1.42	2.50	3.25	3.50
ANR4020T3R6□	3.6	N / M	0.091	1.56	2.50	2.84	3.00
ANR4020T4R7□	4.7	N / M	0.097	1.36	2.00	2.39	2.50
ANR4020T5R1M	5.1	M	0.110	1.29	1.80	2.33	2.50
ANR4020T5R6M	5.6	M	0.116	1.24	1.80	2.23	2.40
ANR4020T6R2M	6.2	M	0.149	1.10	1.60	2.18	2.30
ANR4020T6R8M	6.8	M	0.161	1.06	1.60	2.23	2.40
ANR4020T7R5M	7.5	M	0.149	1.10	1.50	1.88	2.00
ANR4020T8R2M	8.2	M	0.181	1.06	1.40	1.78	1.90
ANR4020T100M	10	M	0.213	0.91	1.20	1.62	1.70
ANR4020T120M	12	M	0.226	0.89	1.20	1.52	1.60
ANR4020T150M	15	M	0.296	0.78	1.10	1.37	1.50
ANR4020T220M	22	M	0.450	0.63	0.87	1.07	1.10
ANR4020T270M	27	M	0.702	0.51	0.70	1.04	1.10
ANR4020T330M	33	M	0.708	0.50	0.68	0.86	0.93
ANR4020T390M	39	M	0.837	0.47	0.64	0.83	0.90
ANR4020T430M	43	M	0.849	0.46	0.63	0.78	0.85
ANR4020T470M	47	M	0.914	0.45	0.61	0.75	0.81
ANR4020T510M	51	M	0.965	0.43	0.59	0.71	0.77
ANR4020T560M	56	M	1.030	0.42	0.57	0.67	0.72
ANR4020T620M	62	M	1.158	0.40	0.52	0.66	0.71
ANR4020T680M	68	M	1.366	0.37	0.50	0.62	0.67
ANR4020T750M	75	M	1.495	0.36	0.49	0.71	0.77
ANR4020T820M	82	M	1.505	0.35	0.47	0.51	0.55
ANR4020T101M	100	M	2.000	0.31	0.43	0.49	0.53
ANR4020T221M	220	M	5.460	0.30	0.34	0.30	0.40

ELECTRICAL CHARACTERISTICS

ANR4026 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR4026T1R0□	1	N / M	0.031	3.05	3.66	3.35	3.72
ANR4026T1R2□	1.2	N / M	0.039	2.33	2.80	3.15	3.50
ANR4026T1R5□	1.5	N / M	0.039	2.33	2.80	2.44	2.71
ANR4026T2R2M	2.2	M	0.051	2.03	2.44	2.13	2.36
ANR4026T3R3M	3.3	M	0.064	1.73	2.08	1.83	2.03
ANR4026T4R7M	4.7	M	0.071	1.62	1.94	1.47	1.63
ANR4026T6R8M	6.8	M	0.084	1.52	1.82	1.32	1.47
ANR4026T100M	10	M	0.109	1.32	1.58	1.02	1.13
ANR4026T150M	15	M	0.142	1.12	1.34	0.91	1.01
ANR4026T220M	22	M	0.212	0.91	1.09	0.61	0.68
ANR4026T330M	33	M	0.347	0.71	0.85	0.56	0.62
ANR4026T470M	47	M	0.386	0.66	0.79	0.41	0.46

ANR4030 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR4030TR47□	0.47	M	0.015	5.20	5.90	7.80	9.80
ANR4030TR68□	0.68	N / M	0.018	4.63	5.10	6.90	8.00
ANR4030TR91□	0.91	N / M	0.017	4.21	4.70	6.34	6.80
ANR4030T1R0□	1	N / M	0.018	4.21	4.70	5.34	5.70
ANR4030T1R2□	1.2	N / M	0.020	3.88	4.20	5.89	6.30
ANR4030T1R5□	1.5	N / M	0.026	3.39	3.60	4.91	5.30
ANR4030T1R8□	1.8	N / M	0.033	3.25	3.30	4.57	5.00
ANR4030T2R2□	2.2	N / M	0.039	2.99	3.20	4.97	5.80
ANR4030T3R3M	3.3	M	0.051	2.44	2.60	3.35	3.60
ANR4030T3R9M	3.9	M	0.073	2.13	2.30	3.05	3.30
ANR4030T4R3M	4.3	M	0.071	2.13	2.30	2.99	3.20
ANR4030T4R7M	4.7	M	0.077	2.03	2.30	2.94	3.20
ANR4030T5R6M	5.6	M	0.084	1.98	2.10	2.64	2.80
ANR4030T6R8M	6.8	M	0.116	1.62	1.70	2.79	3.00
ANR4030T7R5M	7.5	M	0.110	1.67	1.80	2.23	2.40
ANR4030T8R2M	8.2	M	0.116	1.62	1.70	2.13	2.30
ANR4030T100M	10	M	0.129	1.52	1.60	1.98	2.40
ANR4030T120M	12	M	0.174	1.32	1.40	1.73	1.80
ANR4030T150M	15	M	0.245	1.13	1.20	1.67	1.80
ANR4030T180M	18	M	0.257	1.12	1.20	1.42	1.50
ANR4030T220M	22	M	0.290	1.02	1.20	1.32	1.40

ELECTRICAL CHARACTERISTICS

ANR4030 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	K=±10% M=±20%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR4030T330M	33	M	0.455	0.85	0.92	1.12	1.20
ANR4030T360M	36	M	0.482	0.84	0.91	1.07	1.10
ANR4030T390M	39	M	0.560	0.74	0.80	1.05	1.10
ANR4030T470M	47	M	0.573	0.73	0.80	0.96	1.00
ANR4030T510M	51	M	0.605	0.71	0.80	0.91	1.13
ANR4030T560M	56	M	0.715	0.66	0.71	0.86	0.94
ANR4030T620M	62	M	0.752	0.64	0.70	0.81	0.99
ANR4030T680M	68	M	1.117	0.53	0.57	0.73	0.80
ANR4030T750M	75	M	1.313	0.49	0.53	0.71	0.88
ANR4030T820M	82	M	1.364	0.48	0.52	0.67	0.72
ANR4030T910M	91	M	1.416	0.47	0.50	0.66	0.71
ANR4030T101M	100	M	1.480	0.46	0.49	0.61	0.73
ANR4030T121M	120	M	1.737	0.43	0.46	0.56	0.60
ANR4030T151M	150	M	2.317	0.30	0.35	0.51	0.55
ANR4030T221M	220	M	3.250	0.35	0.40	0.40	0.50
ANR4030T331M	330	M	5.200	0.25	0.26	0.30	0.40
ANR4030T471□	470	K/M	9.360	0.20	0.23	0.30	0.35
ANR4030T501M	500	M	8.937	0.15	0.20	0.28	0.30
ANR4030T681M	680	M	9.755	0.14	0.18	0.19	0.20

ANR5012 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR5012T1R0□	1	N / M	0.067	2.03	2.40	4.47	4.70
ANR5012T1R5□	1.5	N / M	0.085	1.93	2.20	3.76	3.80
ANR5012T2R2□	2.2	N / M	0.107	1.73	2.00	3.15	3.20
ANR5012T3R3□	3.3	N / M	0.149	1.42	1.70	2.44	2.60
ANR5012T4R7□	4.7	N / M	0.195	1.32	1.50	2.23	2.30
ANR5012T6R8M	6.8	M	0.291	1.02	1.20	1.73	1.90
ANR5012T100M	10	M	0.409	0.86	1.00	1.42	1.50
ANR5012T150M	15	M	0.518	0.81	0.92	1.22	1.30
ANR5012T220M	22	M	0.849	0.61	0.68	0.89	0.98

ELECTRICAL CHARACTERISTICS

● ANR5020 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR5020TR22□	0.22	N / M	0.011	5.38	6.00	9.14	12.00
ANR5020TR24□	0.24	N / M	0.011	5.38	6.00	8.12	10.00
ANR5020TR47□	0.47	N / M	0.017	4.67	5.00	6.24	6.70
ANR5020TR56□	0.56	N / M	0.022	3.86	4.20	8.63	9.60
ANR5020TR68□	0.68	N / M	0.022	4.06	4.40	5.58	6.00
ANR5020TR75□	0.75	N / M	0.022	4.06	4.40	5.58	6.00
ANR5020T1R0□	1	N / M	0.026	3.86	4.10	4.16	5.00
ANR5020T1R2□	1.2	N / M	0.033	3.60	3.90	4.57	4.90
ANR5020T1R5□	1.5	N / M	0.034	3.25	3.50	4.16	4.50
ANR5020T2R2□	2.2	N / M	0.042	2.94	3.10	3.25	4.00
ANR5020T2R7□	2.7	N / M	0.049	2.74	2.90	2.94	3.50
ANR5020T3R0□	3	N / M	0.049	2.74	2.90	2.59	2.80
ANR5020T3R3□	3.3	N / M	0.056	2.54	2.70	2.59	3.00
ANR5020T3R6□	3.6	N / M	0.055	2.54	2.70	2.84	3.00
ANR5020T3R9□	3.9	N / M	0.071	2.54	2.70	2.33	2.80
ANR5020T4R3M	4.3	M	0.073	2.23	2.40	2.54	3.00
ANR5020T4R7M	4.7	M	0.074	2.23	2.40	2.54	2.70
ANR5020T5R1M	5.1	M	0.082	2.08	2.20	2.28	2.60
ANR5020T5R6M	5.6	M	0.100	2.08	2.20	2.33	2.50
ANR5020T6R8M	6.8	M	0.107	1.83	1.90	2.08	2.20
ANR5020T7R5M	7.5	M	0.116	1.78	1.90	1.88	2.00
ANR5020T8R2M	8.2	M	0.126	1.67	1.80	1.88	2.00
ANR5020T9R1M	9.1	M	0.142	1.57	1.70	1.73	1.80
ANR5020T100M	10	M	0.142	1.57	1.70	1.73	1.80
ANR5020T120M	12	M	0.180	1.42	1.50	1.52	1.60
ANR5020T150M	15	M	0.215	1.27	1.30	1.37	1.40
ANR5020T180M	18	M	0.257	1.17	1.20	1.27	1.30
ANR5020T220M	22	M	0.294	1.12	1.20	1.17	1.20
ANR5020T330M	33	M	0.507	0.91	0.99	0.93	1.00
ANR5020T470M	47	M	0.680	0.78	0.84	0.78	0.84
ANR5020T560M	56	M	0.957	0.71	0.77	0.78	0.84
ANR5020T680M	68	M	0.962	0.65	0.70	0.66	0.70
ANR5020T820M	82	M	1.146	0.51	0.60	0.66	0.75
ANR5020T101M	100	M	1.430	0.54	0.58	0.54	0.58
ANR5020T121M	120	M	1.737	0.41	0.50	0.43	0.53
ANR5020T201M	200	M	2.574	0.41	0.45	0.30	0.33
ANR5020T561M	560	M	9.060	0.20	0.30	0.24	0.30

ELECTRICAL CHARACTERISTICS

ANR5040 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR5040TR22□	0.22	N / M	0.008	6.60	7.50	18.27	20.00
ANR5040TR24□	0.24	N / M	0.008	6.50	7.40	15.94	18.00
ANR5040TR47□	0.47	N / M	0.013	6.70	7.60	10.15	11.50
ANR5040T1R0□	1	N / M	0.018	4.97	5.10	7.46	8.20
ANR5040T1R2□	1.2	N / M	0.021	4.21	4.30	6.60	7.10
ANR5040T1R5□	1.5	N / M	0.020	4.36	4.80	6.39	7.30
ANR5040T1R8□	1.8	N / M	0.027	4.21	4.30	5.58	6.40
ANR5040T2R2□	2.2	N / M	0.027	3.86	4.30	4.97	5.60
ANR5040T2R7□	2.7	N / M	0.029	3.65	4.10	4.36	5.10
ANR5040T3R0□	3	N / M	0.029	3.65	4.20	4.21	4.80
ANR5040T3R3□	3.3	N / M	0.031	3.45	3.90	4.01	4.60
ANR5040T3R6□	3.6	N / M	0.031	3.35	3.70	3.86	4.40
ANR5040T3R9□	3.9	N / M	0.035	3.25	3.70	3.60	4.20
ANR5040T4R7□	4.7	N / M	0.041	3.05	3.30	3.55	3.90
ANR5040T5R6M	5.6	M	0.046	2.84	3.10	3.05	4.10
ANR5040T6R8M	6.8	M	0.056	2.54	2.80	2.94	3.50
ANR5040T8R2M	8.2	M	0.074	2.33	2.60	2.74	3.00
ANR5040T100M	10	M	0.083	2.13	2.40	2.39	2.90
ANR5040T120M	12	M	0.099	2.03	2.10	2.23	2.50
ANR5040T150M	15	M	0.112	2.03	2.10	2.03	2.30
ANR5040T180M	18	M	0.153	1.47	1.65	1.73	2.00
ANR5040T220M	22	M	0.168	1.52	1.60	1.62	1.90
ANR5040T270M	27	M	0.242	1.12	1.25	1.54	1.75
ANR5040T330M	33	M	0.244	1.22	1.40	1.32	1.50
ANR5040T470M	47	M	0.354	1.02	1.10	1.12	1.30
ANR5040T510M	51	M	0.489	1.02	1.10	1.02	1.20
ANR5040T560M	56	M	0.494	0.81	0.90	1.07	1.20
ANR5040T680M	68	M	0.520	0.81	0.90	0.91	1.10
ANR5040T750M	75	M	0.579	0.73	0.80	0.86	0.95
ANR5040T101M	100	M	0.728	0.71	0.80	0.76	0.90
ANR5040T151M	150	M	0.975	0.61	0.70	0.66	0.67
ANR5040T221M	220	M	1.820	0.41	0.50	0.49	0.55
ANR5040T301M	300	M	2.574	0.36	0.40	0.51	0.58
ANR5040T331M	330	M	2.703	0.41	0.50	0.43	0.47
ANR5040T471M	470	M	3.900	0.36	0.40	0.38	0.43
ANR5040T561M	560	M	4.914	0.31	0.35	0.31	0.36
ANR5040T681M	680	M	5.070	0.25	0.30	0.30	0.35
ANR5040T102M	1000	M	7.800	0.20	0.23	0.21	0.25
ANR5040T222M	2200	M	14.820	0.11	0.12	0.15	0.18
ANR5040T103M	10000	M	58.500	0.075	0.086	0.065	0.075

ELECTRICAL CHARACTERISTICS

ANR5045 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR5045T2R2M	2.2	M	0.029	4.77	5.40	6.50	7.20
ANR5045T100M	10	M	0.078	2.54	2.90	3.25	3.70
ANR5045T220M	22	M	0.161	1.57	1.80	2.03	2.35

ANR6020 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR6020TR50□	0.5	N / M	0.018	4.06	5.00	4.57	6.00
ANR6020TR68□	0.68	N / M	0.022	3.86	4.80	6.65	7.80
ANR6020TR82□	0.82	N / M	0.022	3.86	4.80	5.38	6.30
ANR6020T1R0□	1	N / M	0.026	3.55	4.40	4.21	5.00
ANR6020T1R2□	1.2	N / M	0.029	3.25	4.00	5.99	7.00
ANR6020T1R5□	1.5	N / M	0.029	3.25	4.00	4.31	5.10
ANR6020T1R8□	1.8	N / M	0.036	2.79	3.50	4.92	5.80
ANR6020T2R0□	2	N / M	0.046	2.64	3.30	4.16	4.90
ANR6020T2R2□	2.2	N / M	0.036	2.79	3.50	3.81	4.50
ANR6020T2R7□	2.7	N / M	0.046	2.64	3.30	3.96	4.60
ANR6020T3R3□	3.3	N / M	0.046	2.64	3.30	3.20	3.70
ANR6020T3R9□	3.9	N / M	0.063	2.13	2.60	3.30	3.90
ANR6020T4R3□	4.3	N / M	0.063	2.13	2.60	2.74	3.20
ANR6020T4R7□	4.7	N / M	0.074	2.03	2.50	3.05	3.60
ANR6020T5R6□	5.6	N / M	0.089	1.93	2.40	2.44	2.90
ANR6020T6R2□	6.2	N / M	0.102	1.83	2.30	2.33	2.70
ANR6020T6R8□	6.8	N / M	0.102	1.83	2.30	2.23	2.60
ANR6020T8R2□	8.2	N / M	0.136	1.42	1.80	2.13	2.50
ANR6020T100M	10	M	0.136	1.42	1.80	1.78	2.10
ANR6020T120M	12	M	0.154	1.32	1.60	1.47	1.70
ANR6020T150M	15	M	0.187	1.22	1.50	1.22	1.40
ANR6020T180M	18	M	0.232	1.10	1.40	1.22	1.40
ANR6020T220M	22	M	0.262	1.02	1.30	1.07	1.20
ANR6020T330M	33	M	0.386	0.85	1.05	0.96	1.10
ANR6020T470M	47	M	0.553	0.81	0.90	0.71	0.90
ANR6020T331M	330	M	3.885	0.33	0.39	0.27	0.33
ANR6020T101M	100	M	1.200	0.50	0.58	0.64	0.84

ELECTRICAL CHARACTERISTICS

● ANR6028 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR6028TR82□	0.82	N / M	0.016	5.28	6.00	6.60	9.00
ANR6028T1R0□	1	N / M	0.018	5.28	5.70	5.84	7.00
ANR6028T1R2□	1.2	N / M	0.017	4.65	5.00	6.50	7.50
ANR6028T1R5□	1.5	N / M	0.017	4.65	5.00	6.09	6.60
ANR6028T2R2□	2.2	N / M	0.026	3.81	4.10	5.18	5.60
ANR6028T2R7□	2.7	N / M	0.033	3.81	4.10	3.86	4.10
ANR6028T3R3□	3.3	N / M	0.033	3.53	3.80	4.21	4.50
ANR6028T4R7□	4.7	N / M	0.039	3.13	3.40	3.05	3.30
ANR6028T5R1□	5.1	N / M	0.055	2.64	2.80	3.25	3.50
ANR6028T6R2M	6.2	M	0.060	2.44	2.60	3.10	3.30
ANR6028T6R8M	6.8	M	0.060	2.44	2.60	2.64	3.00
ANR6028T8R2M	8.2	M	0.071	2.28	2.50	2.33	2.50
ANR6028T9R1M	9.1	M	0.095	2.18	2.40	2.59	2.80
ANR6028T100M	10	M	0.093	1.98	2.40	2.07	2.50
ANR6028T120M	12	M	0.103	1.88	2.00	1.83	2.00
ANR6028T150M	15	M	0.161	1.47	1.60	1.78	1.90
ANR6028T180M	18	M	0.154	1.47	1.60	1.54	1.80
ANR6028T220M	22	M	0.180	1.42	1.60	1.47	1.80
ANR6028T270M	27	M	0.200	1.34	1.40	1.52	1.60
ANR6028T330M	33	M	0.239	1.24	1.30	1.37	1.50
ANR6028T360M	36	M	0.277	1.15	1.20	1.27	1.40
ANR6028T390M	39	M	0.290	1.12	1.20	1.27	1.40
ANR6028T470M	47	M	0.406	1.08	1.10	1.17	1.30
ANR6028T560M	56	M	0.445	0.90	1.00	1.07	1.20
ANR6028T680M	68	M	0.463	0.87	0.95	0.81	0.95
ANR6028T750M	75	M	0.528	0.82	0.90	0.91	0.99
ANR6028T820M	82	M	0.644	0.71	0.77	0.81	0.88
ANR6028T101M	100	M	0.774	0.71	0.77	0.66	0.71
ANR6028T151M	150	M	0.780	0.70	0.80	0.80	0.88
ANR6028T221M	220	M	1.729	0.50	0.57	0.40	0.50
ANR6028T401M	400	M	2.780	0.41	0.45	0.30	0.33
ANR6028T471M	470	M	3.505	0.33	0.37	0.28	0.32
ANR6028T102M	1000	M	7.540	0.23	0.26	0.18	0.22

ELECTRICAL CHARACTERISTICS

ANR6045 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR6045TR47□	0.47	N / M	0.012	6.60	6.60	15.23	16.50
ANR6045TR56□	0.56	N / M	0.012	6.60	6.60	14.21	15.00
ANR6045TR68□	0.68	N / M	0.012	5.79	6.50	11.17	12.00
ANR6045TR82□	0.82	N / M	0.013	5.99	6.50	10.51	11.00
ANR6045T1R0□	1	N / M	0.014	5.22	5.60	10.00	10.00
ANR6045T1R2□	1.2	N / M	0.016	5.48	5.90	8.48	9.10
ANR6045T1R3□	1.3	N / M	0.013	5.48	5.90	8.48	9.10
ANR6045T1R5□	1.5	N / M	0.016	5.02	5.40	8.93	9.70
ANR6045T1R8□	1.8	N / M	0.016	5.02	5.40	7.71	8.40
ANR6045T2R2□	2.2	N / M	0.023	4.67	5.00	6.85	7.40
ANR6045T2R3□	2.3	N / M	0.027	3.55	3.80	6.09	6.60
ANR6045T2R7□	2.7	N / M	0.020	4.36	4.70	5.84	6.30
ANR6045T3R0□	3	N / M	0.026	3.86	4.20	5.68	6.20
ANR6045T3R3□	3.3	N / M	0.027	3.76	4.00	5.99	6.20
ANR6045T3R6□	3.6	N / M	0.027	3.76	4.00	5.33	5.70
ANR6045T4R3M	4.3	M	0.030	3.55	3.80	4.52	4.90
ANR6045T4R5M	4.5	M	0.034	3.35	3.60	5.04	5.50
ANR6045T4R7M	4.7	M	0.034	3.35	3.60	5.04	5.50
ANR6045T5R1M	5.1	M	0.034	3.35	3.60	4.47	4.80
ANR6045T5R6M	5.6	M	0.038	3.20	3.40	4.21	4.60
ANR6045T6R2M	6.2	M	0.040	3.05	3.30	4.50	4.80
ANR6045T6R3M	6.3	M	0.040	3.05	3.30	4.50	4.70
ANR6045T6R8M	6.8	M	0.048	3.05	3.30	3.96	4.30
ANR6045T7R5M	7.5	M	0.044	2.94	3.20	3.55	3.80
ANR6045T8R2M	8.2	M	0.060	2.64	2.80	3.96	4.30
ANR6045T9R1M	9.1	M	0.055	2.64	2.80	3.40	3.70
ANR6045T100M	10	M	0.062	2.49	2.70	3.25	3.50
ANR6045T120M	12	M	0.074	2.23	2.40	2.84	3.00
ANR6045T150M	15	M	0.088	2.08	2.20	2.54	2.70
ANR6045T180M	18	M	0.104	1.88	2.00	2.23	2.40
ANR6045T220M	22	M	0.116	1.83	2.00	2.08	2.20
ANR6045T270M	27	M	0.132	1.67	1.80	1.93	2.10
ANR6045T300M	30	M	0.170	1.52	1.60	1.73	1.80
ANR6045T330M	33	M	0.178	1.47	1.60	1.67	1.80
ANR6045T360M	36	M	0.223	1.42	1.50	1.64	1.80
ANR6045T390M	39	M	0.232	1.27	1.40	1.52	1.60
ANR6045T430M	43	M	0.257	1.22	1.30	1.65	1.80
ANR6045T470M	47	M	0.260	1.22	1.30	1.42	1.50
ANR6045T510M	51	M	0.266	1.17	1.20	1.37	1.50
ANR6045T560M	56	M	0.287	1.12	1.20	1.32	1.40

ELECTRICAL CHARACTERISTICS

ANR6045 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR6045T620M	62	M	0.303	1.12	1.20	1.27	1.40
ANR6045T680M	68	M	0.376	1.02	1.10	1.22	1.30
ANR6045T750M	75	M	0.393	0.96	1.00	1.17	1.20
ANR6045T820M	82	M	0.500	0.91	0.99	1.07	1.10
ANR6045T910M	91	M	0.462	0.86	0.94	1.02	1.10
ANR6045T101M	100	M	0.563	0.81	0.88	0.96	1.00
ANR6045T121M	120	M	0.623	0.78	0.85	0.86	0.94
ANR6045T151M	150	M	0.754	0.71	0.77	0.81	0.88
ANR6045T221M	220	M	1.084	0.60	0.65	0.71	0.77
ANR6045T331M	330	M	1.651	0.58	0.63	0.58	0.63
ANR6045T471M	470	M	2.340	0.43	0.48	0.51	0.56
ANR6045T681M	680	M	3.250	0.33	0.38	0.43	0.46
ANR6045T102M	1000	M	5.850	0.30	0.35	0.30	0.35
ANR6045T152M	1500	M	8.100	0.21	0.24	0.24	0.29

ANR8040 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR8040TR50□	0.5	N / M	0.010	10.00	12.00	15.00	17.00
ANR8040TR82□	0.82	N / M	0.010	6.39	6.90	14.01	16.00
ANR8040T1R0□	1	N / M	0.010	6.39	6.90	10.00	14.00
ANR8040T1R2□	1.2	N / M	0.013	5.73	6.20	10.15	14.00
ANR8040T1R5□	1.5	N / M	0.013	5.73	6.20	8.27	11.00
ANR8040T2R0□	2	N / M	0.016	5.23	5.60	9.39	10.00
ANR8040T2R2□	2.2	N / M	0.016	5.23	5.60	7.21	8.00
ANR8040T3R0□	3	N / M	0.018	4.77	5.20	6.19	7.00
ANR8040T3R3□	3.3	N / M	0.022	4.47	4.80	6.60	7.00
ANR8040T3R6□	3.6	N / M	0.022	4.42	4.80	7.63	8.50
ANR8040T3R9□	3.9	N / M	0.022	4.42	4.80	5.84	6.50
ANR8040T4R7□	4.7	N / M	0.025	4.16	4.50	5.99	6.50
ANR8040T5R1□	5.1	N / M	0.025	4.11	4.40	4.77	5.40
ANR8040T5R6□	5.6	N / M	0.027	3.91	4.20	6.09	6.90
ANR8040T6R2□	6.2	N / M	0.027	3.91	4.20	4.52	5.10
ANR8040T6R8M	6.8	M	0.031	3.65	4.00	4.62	5.20
ANR8040T8R2M	8.2	M	0.034	3.50	3.80	4.26	4.80
ANR8040T100M	10	M	0.038	3.35	3.60	3.65	4.10
ANR8040T120M	12	M	0.052	2.84	3.00	3.55	4.00
ANR8040T150M	15	M	0.060	2.64	2.80	2.99	3.40

ELECTRICAL CHARACTERISTICS

● ANR8040 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR8040T180M	18	M	0.068	2.44	2.60	2.74	3.10
ANR8040T220M	22	M	0.089	2.13	2.30	2.44	2.70
ANR8040T270M	27	M	0.100	2.03	2.20	2.18	2.50
ANR8040T330M	33	M	0.125	1.83	2.00	2.08	2.40
ANR8040T360M	36	M	0.132	1.78	1.90	2.03	2.30
ANR8040T390M	39	M	0.138	1.73	1.90	1.98	2.20
ANR8040T430M	43	M	0.146	1.67	1.80	1.93	2.20
ANR8040T470M	47	M	0.175	1.57	1.70	1.78	2.00
ANR8040T510M	51	M	0.183	1.52	1.60	1.73	1.90
ANR8040T560M	56	M	0.190	1.47	1.60	1.57	1.70
ANR8040T620M	62	M	0.235	1.32	1.40	1.52	1.60
ANR8040T680M	68	M	0.252	1.27	1.40	1.47	1.60
ANR8040T750M	75	M	0.271	1.22	1.30	1.37	1.50
ANR8040T820M	82	M	0.290	1.17	1.20	1.32	1.40
ANR8040T910M	91	M	0.350	1.07	1.10	1.22	1.30
ANR8040T101M	100	M	0.373	1.02	1.10	1.17	1.30
ANR8040T121M	120	M	0.430	0.96	1.00	1.07	1.10
ANR8040T151M	150	M	0.528	0.86	0.94	1.12	1.20
ANR8040T181M	180	M	0.669	0.84	0.92	0.96	1.15
ANR8040T221M	220	M	0.771	0.81	0.88	0.86	0.94
ANR8040T331M	330	M	1.144	0.65	0.70	0.69	0.75
ANR8040T471M	470	M	1.609	0.51	0.60	0.61	0.70
ANR8040T561M	560	M	2.320	0.47	0.54	0.50	0.60
ANR8040T681M	680	M	2.652	0.45	0.50	0.50	0.60
ANR8040T102M	1000	M	3.640	0.35	0.40	0.40	0.50
ANR8040T152M	1500	M	6.500	0.26	0.27	0.32	0.38

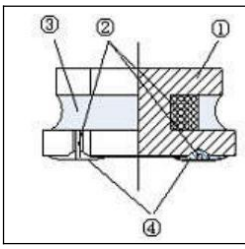
ELECTRICAL CHARACTERISTICS

- ANR8065 Series

Part Number	Inductance	Inductance Tolerance	DC Resistance	Heat Rating Current		Saturation Current	
	@100kHz,1V		Max.	Max.	Typ.	Max.	Typ.
Units	μH	M=±20% N=±30%	Ω	A		A	
Symbol	L		DCR	Irms		Isat	
ANR8065TR68M	0.68	M	0.008	7.61	8.50	24.36	26.00
ANR8065T1R0M	1	M	0.011	7.11	8.00	20.30	22.00
ANR8065T2R2M	2.2	M	0.016	5.28	4.50	14.01	12.00
ANR8065T3R3M	3.3	M	0.018	5.18	5.90	9.64	10.00
ANR8065T4R7M	4.7	M	0.022	4.77	5.40	8.63	9.50
ANR8065T5R6M	5.6	M	0.026	4.57	5.20	8.12	9.00
ANR8065T6R8M	6.8	M	0.026	4.57	5.20	7.61	8.00
ANR8065T8R2M	8.2	M	0.031	4.26	4.80	7.11	7.70
ANR8065T100M	10	M	0.044	3.25	3.70	8.12	8.90
ANR8065T150M	15	M	0.053	3.30	3.75	5.79	6.70
ANR8065T220M	22	M	0.072	2.74	3.10	4.36	4.80
ANR8065T470M	47	M	0.152	1.88	2.15	3.45	3.70
ANR8065T560M	56	M	0.198	1.37	1.55	3.25	3.70
ANR8065T680M	68	M	0.218	1.57	1.80	2.74	3.20
ANR8065T101M	100	M	0.280	1.37	1.45	2.03	2.40
ANR8065T151M	150	M	0.440	0.96	1.10	1.62	2.00
ANR8065T221M	220	M	0.656	0.81	0.90	1.22	1.50
ANR8065T331M	330	M	0.840	0.76	0.85	1.02	1.20
ANR8065T471M	470	M	1.560	0.56	0.65	1.02	1.20
ANR8065T681M	680	M	1.944	0.53	0.60	0.86	1.00
ANR8065T102M	1000	M	2.820	0.40	0.45	0.65	0.73

- All test data is referenced to 20°C ambient.
- Rated current: Isat or Irms, whichever is smaller.
- Isat: DC current at which the inductance drops approximate 30% from its value without current.
- Irms: DC current that causes the temperature rise (△T =40°C) from 20°C ambient.
- Storage temperature range (packaging conditions): -40℃ ~ +85℃ and RH 70% (Max.).

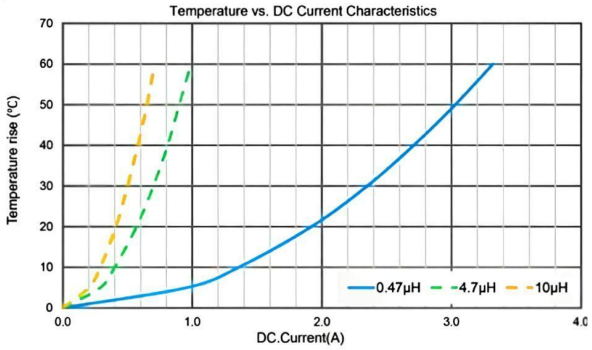
STRUCTURE

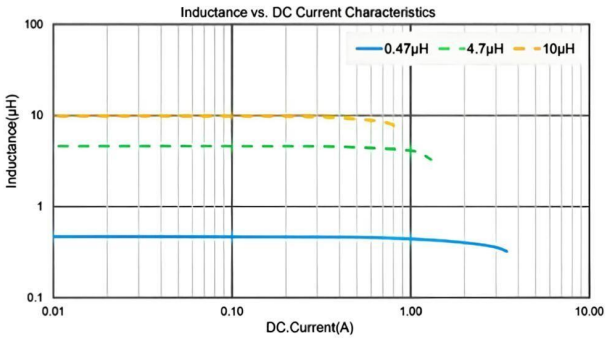


NO	Components	Material
1	Core	Ni-Zn Ferrite
2	Wire	Polyurethane system enameled copper wire
3	Magnetic Glue	Epoxy resin and magnetic powder
4	Plating	AgNiSn or FeNiCu + Sn Alloy

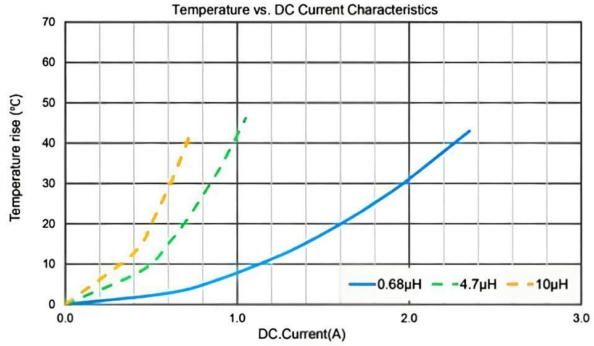
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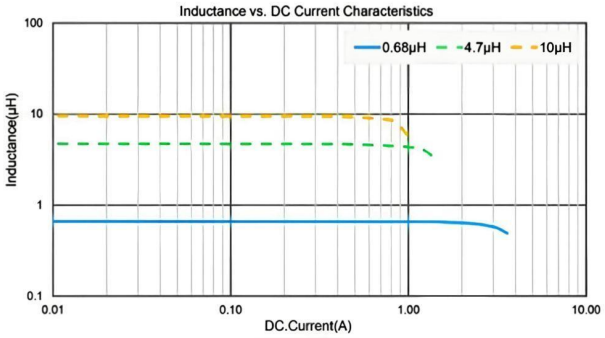
ANR252010 Series



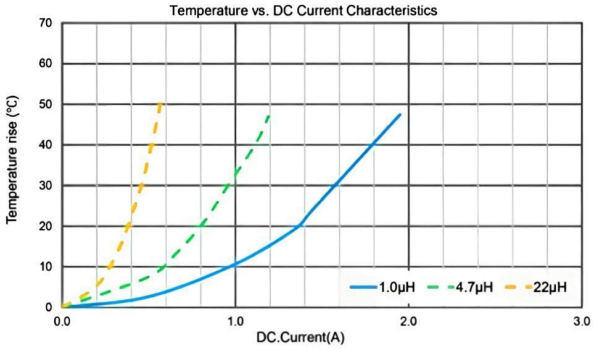


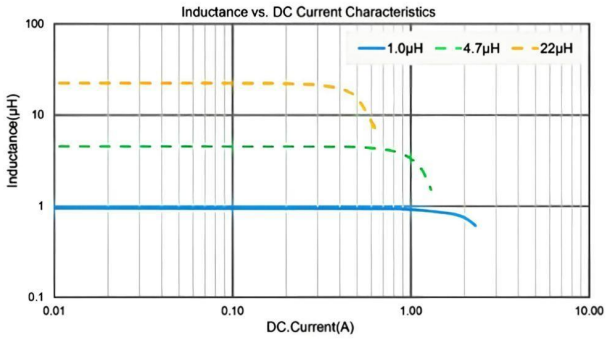
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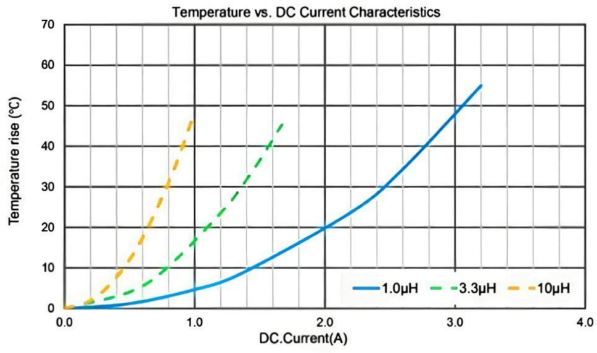


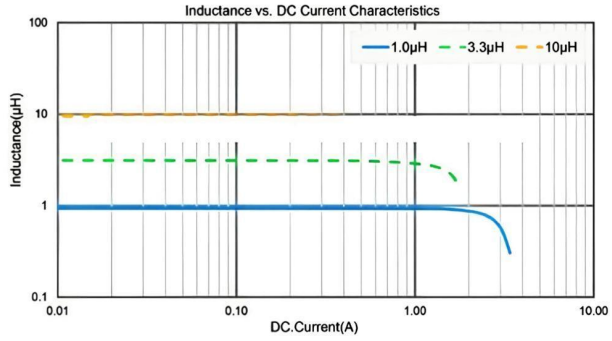
ANR3010 Series





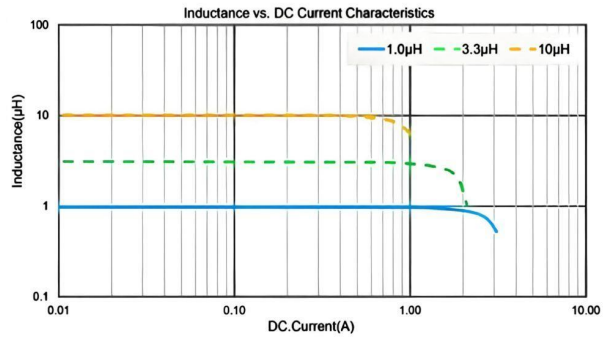
ANR3012 Series

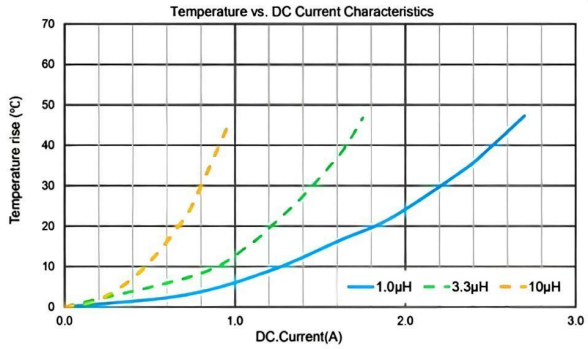




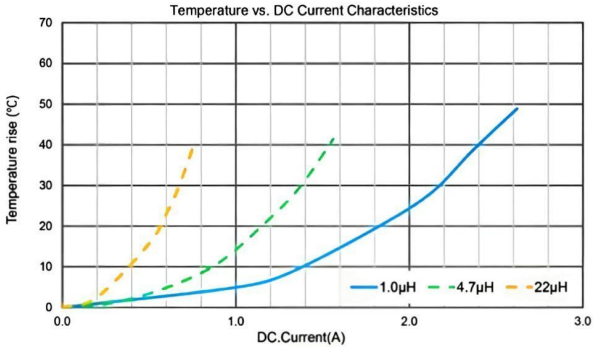
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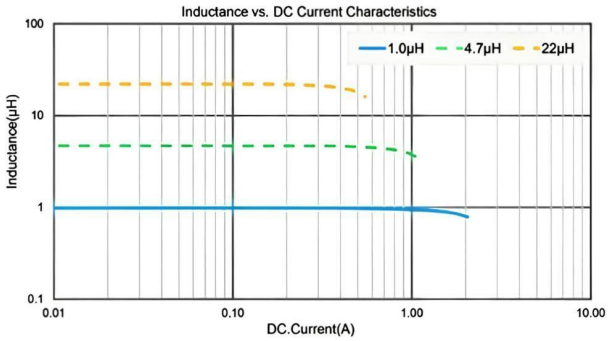
ANR3015 Series



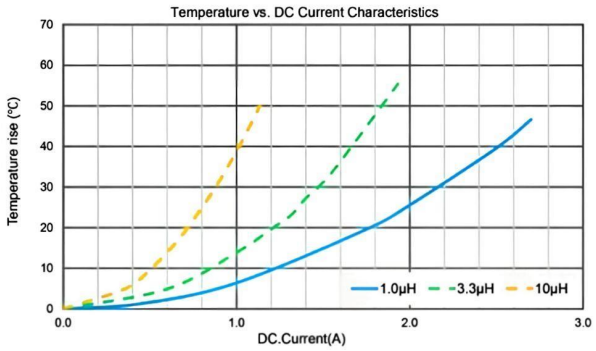


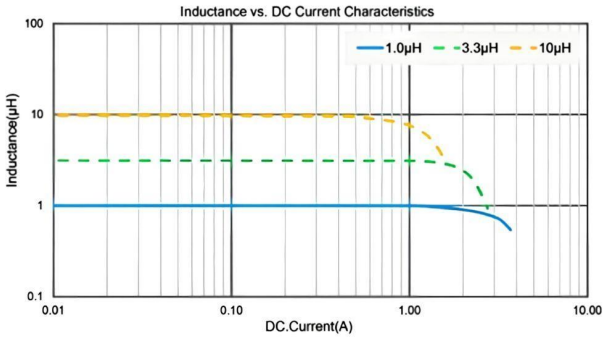
ANR4010 Series



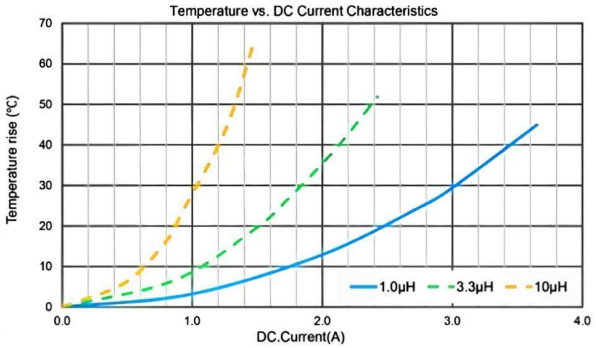


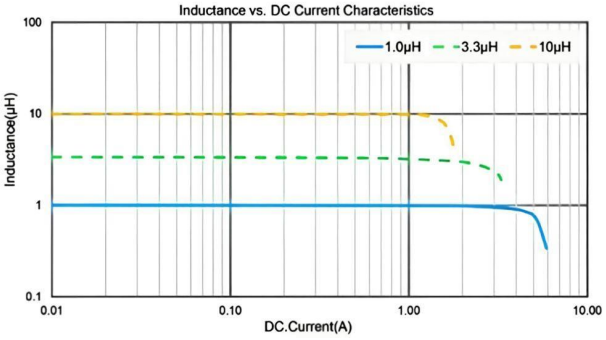
ANR4012 Series





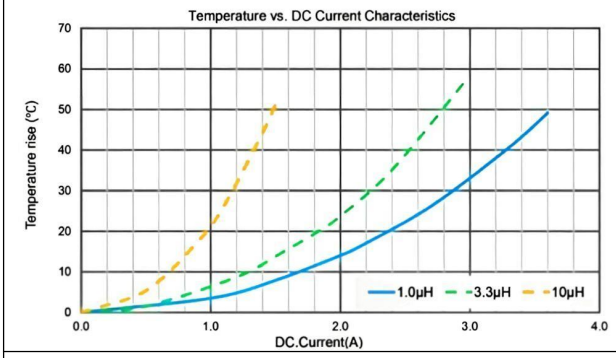
ANR4018 Series

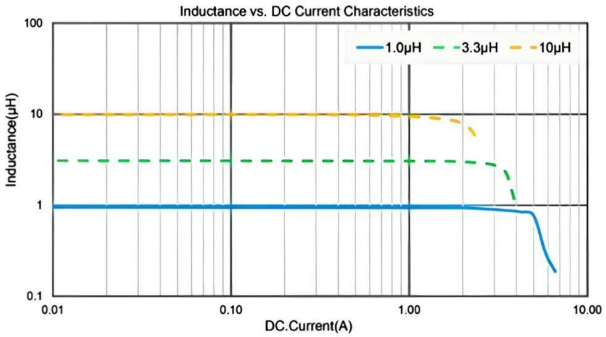




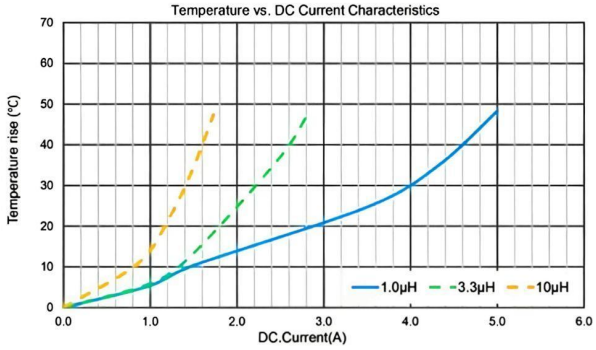
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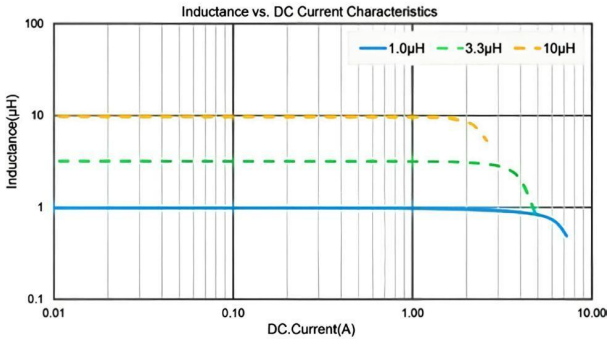
ANR4020 Series



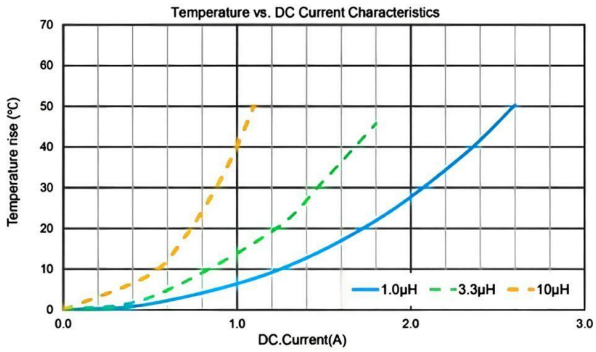


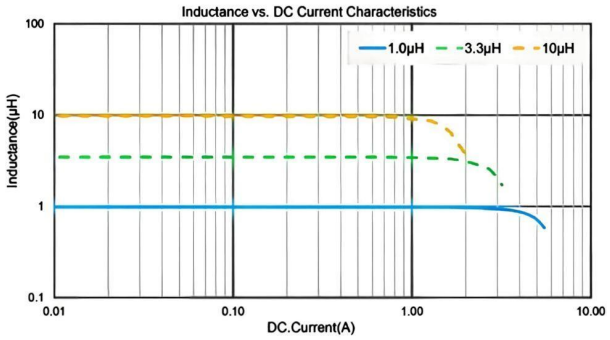
ANR4030 Series



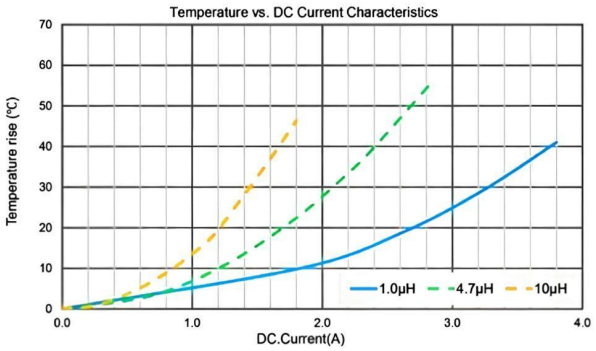


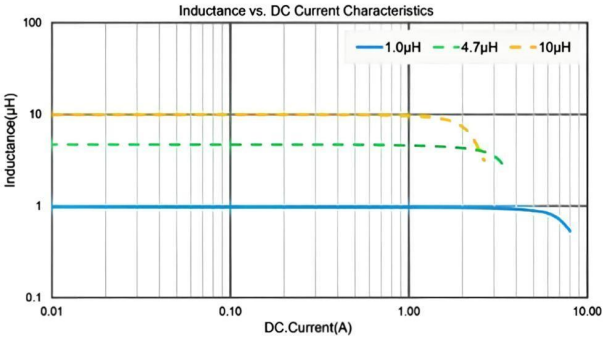
ANR5012 Series





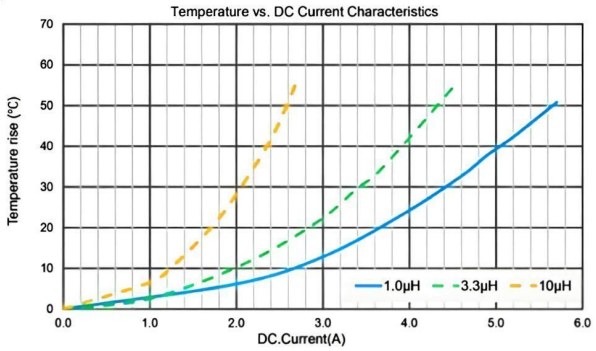
ANR5020 Series

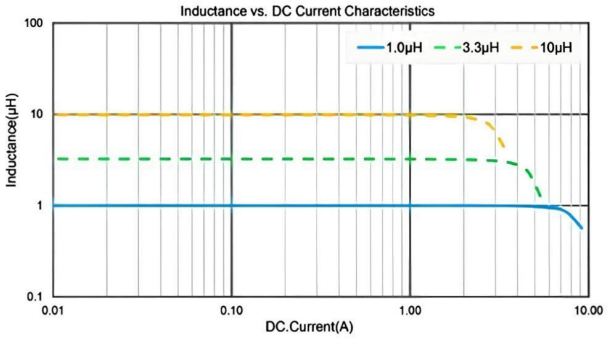




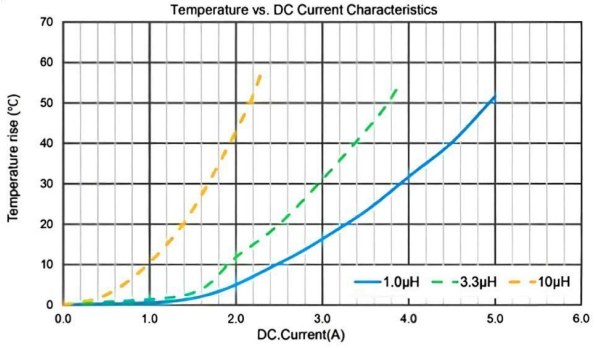
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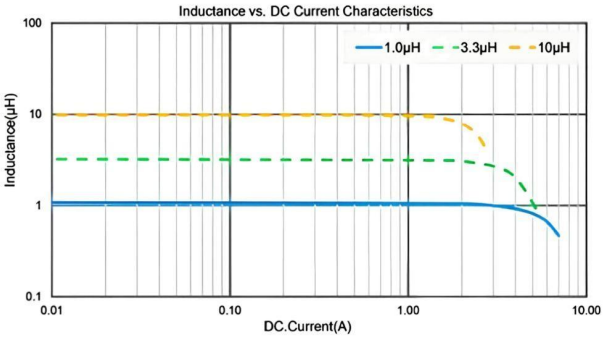
ANR5040 Series



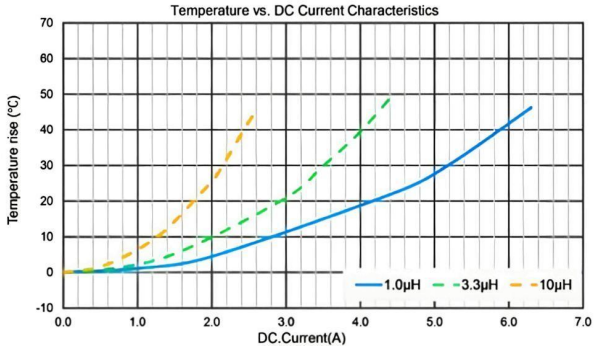


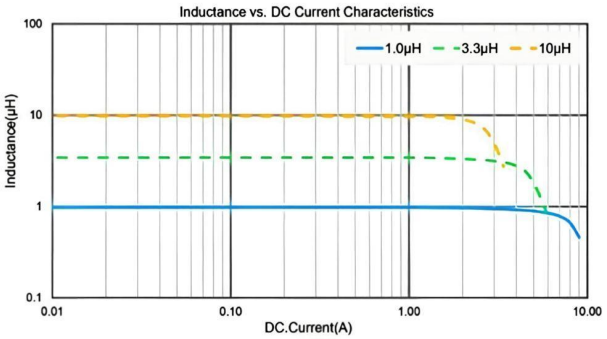
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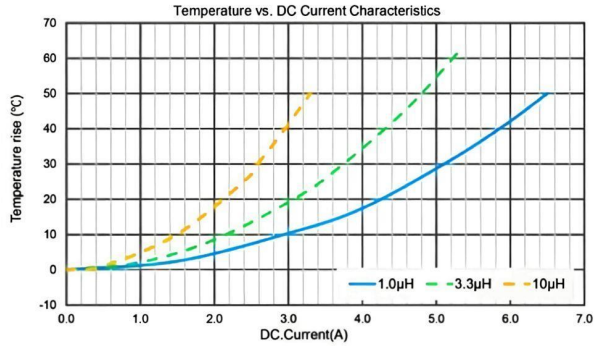


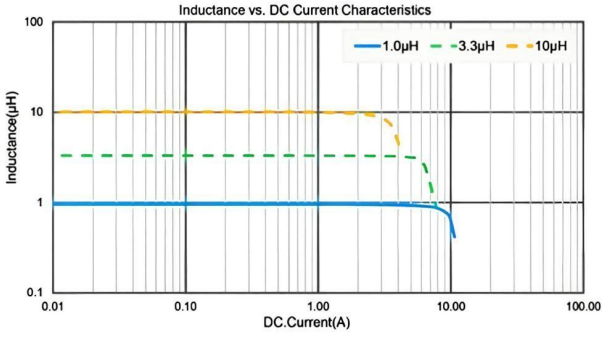
ANR6028 Series





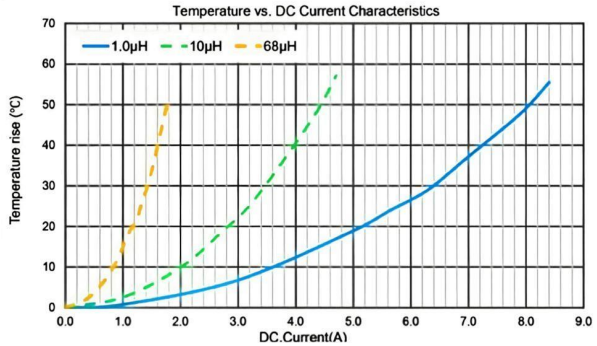
ANR6045 Series

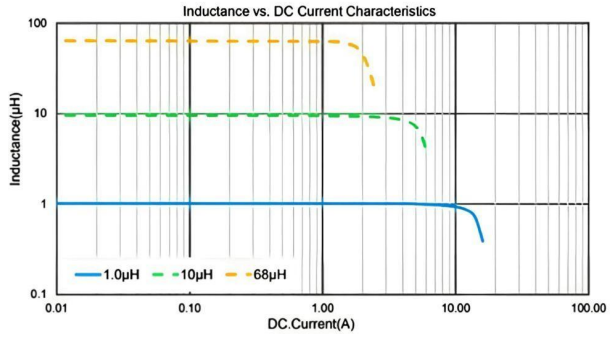




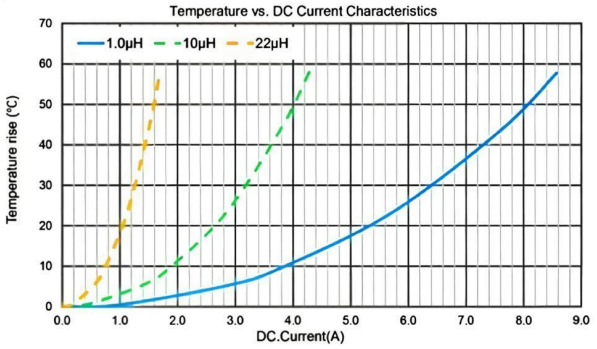
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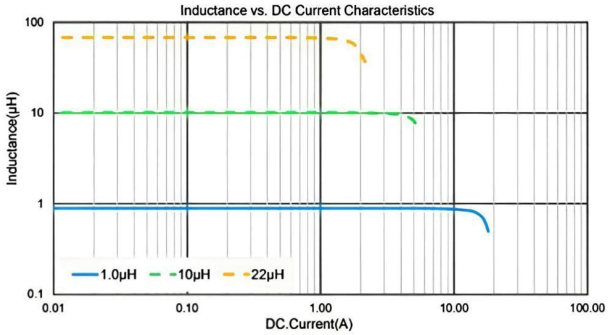
ANR8040 Series



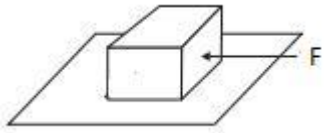


ANR8065 Series





RELIABILITY TEST

TEST ITEM	SPECIFICATION	TEST CONDITION
High temperature Storage test	1. No significant defects in appearance. 2.ΔL/L≦10% 3.ΔDCR/DCR≦10%	Temperature: 125℃±5℃ (N: Follow the product specification for the setting.) Time : 96±2 hours Place the samples for one hour at room temperature and test them within two hours
Low temperature Storage test	1. No significant defects in appearance. 2.ΔL/L≦10% 3.ΔDCR/DCR≦10%	Temperature: -40℃±5℃ (M: Follow the product specification for the setting) Time : 96±2 hours Place the samples for one hour at room temperature and test them within two hours.
Humidity test	1. No significant defects in appearance. 2.ΔL/L≦10% 3.ΔDCR/DCR≦10%	Temperature: 40±2℃ , Humidity: 93±3%RH Time : 96±2 hours Place the samples for one hour at room temperature and test them within two hours
Solderability test	Terminals must have 95% minimum solder coverage	1.Dip pads in flux then dip in solder pot at 245±5°C for 5 second. 2.Solder: lead free 3.Flux: rosin flux
Heat endurance of flow soldering	1. No significant defects in appearance. 2.ΔL/L≦10% 3.ΔDCR/DCR≦10%	1.Refer to the above reflow curve and go through the reflow for twice. 2.The peak temperature : 260+0/-5℃
Vibration test	1.No significant defects in appearance. 2.No short and no open.	Apply frequency 10~55~10Hz and amplitude 1.5mm, 1 min/cycle in X Y and Z direction for 2 hours each. (total 6 hours)
Terminal strength push test	1. Applied force:10N Duration: 10sec 2.Solder paste thickness:0.12mm 3.Meet the above requirements without any loose termina	Solder the test samples to the PCB through245 ℃ reflow, apply a standard force on the side of the test samples for 10 seconds. 

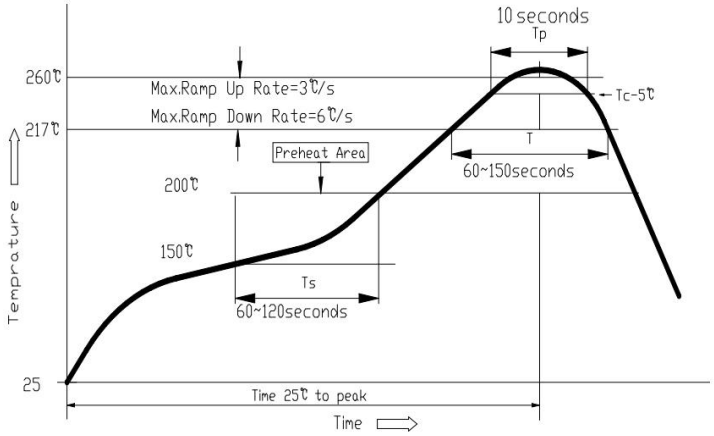
RECOMMENDED SOLDERING TECHNOLGIES

- Soldering Materials.

☆ Solder:Sn-3.0Ag-0.5Cu.

☆ Flux:Use rosin-based flux,but not strongly acidic flux (with xhlorine exceeding 0.2wt%).Do not use water-soluble flux.

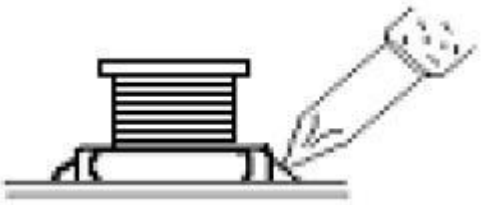
- Reflow Soldering Profile.



- Reflow Soldering Profile.

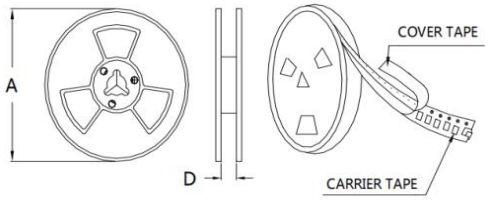
☆ Reworking with electric solding iron must preheating at 150℃ for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

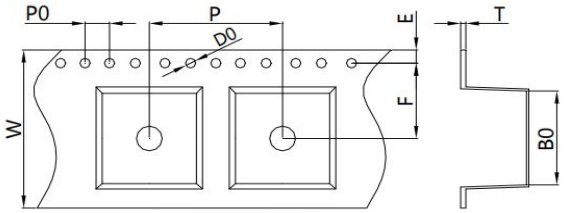
- Temperature of soldering iron tip:350℃;
- Soldering iron power output:≤30W;
- Diameter of soldering iron end:≤1.0mm;
- Soldering time:＜3 s;



PACKAGING

- Packaging (unit: mm)

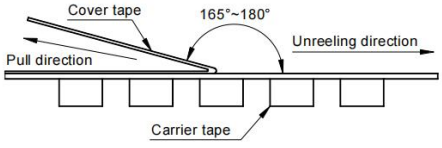




Size	W	B0	P	T	E	F	D0	P0
ANR252010	8.0±0.3	2.65±0.2	4.0±0.1	0.25±0.1	1.75±0.1	3.5±0.1	1.5±0.1	4.0±0.2
ANR252012	8.0±0.3	2.65±0.2	4.0±0.1	0.25±0.1	1.75±0.1	3.5±0.1	1.5±0.1	4.0±0.2
ANR3010	8.0±0.2	3.2±0.1	4.0±0.1	0.22±0.05	1.75±0.1	3.5±0.1	1.5±0.1	4.0±0.2
ANR3012	8.0±0.3	3.3±0.15	4.0±0.1	0.3±0.1	1.75±0.1	3.5±0.1	1.5±0.1	4.0±0.2
ANR3015	8.0±0.3	3.3±0.15	4.0±0.1	0.3±0.1	1.75±0.1	3.5±0.1	1.5±0.1	4.0±0.2
ANR4010	12.0±0.3	4.4±0.2	8.0±0.3	0.3±0.1	1.75±0.1	5.5±0.2	1.5±0.1	4.0±0.2
ANR4012	12.0±0.3	4.4±0.2	8.0±0.3	0.3±0.1	1.75±0.1	5.5±0.2	1.5±0.1	4.0±0.2
ANR4018	12.0±0.3	4.4±0.2	8.0±0.3	0.3±0.1	1.75±0.1	5.5±0.2	1.5±0.1	4.0±0.2
ANR4020	12.0±0.3	4.4±0.2	8.0±0.3	0.3±0.1	1.75±0.1	5.5±0.2	1.5±0.1	4.0±0.2
ANR4026	12.0±0.3	4.4±0.2	8.0±0.3	0.3±0.1	1.75±0.1	5.5±0.2	1.5±0.1	4.0±0.2
ANR4030	12.0±0.3	4.4±0.2	8.0±0.3	0.3±0.1	1.75±0.1	5.5±0.2	1.5±0.1	4.0±0.2
ANR5012	12.0±0.3	5.5±0.3	8.0±0.3	0.4±0.1	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.2
ANR5020	12.0±0.3	5.5±0.3	8.0±0.3	0.4±0.1	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.2
ANR5040	12.0±0.3	5.5±0.3	8.0±0.3	0.4±0.1	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.2
ANR5045	12.0±0.3	5.5±0.3	8.0±0.3	0.4±0.1	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.2
ANR6020	12.0±0.3	6.5±0.15	8.0±0.3	0.4±0.1	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.2
ANR6028	12.0±0.3	6.5±0.15	8.0±0.3	0.4±0.1	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.2
ANR6045	12.0±0.3	6.5±0.15	8.0±0.3	0.4±0.1	1.75±0.1	5.5±0.1	1.5±0.1	4.0±0.2
ANR8040	16.0±0.3	8.4±0.1	12±0.1	0.4±0.1	1.75±0.1	7.5±0.1	1.5±0.1	4.0±0.2
ANR8065	16.0±0.3	8.4±0.1	12±0.1	0.4±0.1	1.75±0.1	7.5±0.1	1.5±0.1	4.0±0.2

Size	A	D	Quantity / Reel	Size	A	D	Quantity / Reel
ANR252010	Φ178±2.0	8.5	2000 Pcs	ANR4030	Φ330±2.0	12.5	2000 Pcs
ANR252012	Φ178±2.0	8.5	2000 Pcs	ANR5012	Φ330±2.0	12.5	4500 Pcs
ANR3010	Φ178±2.0	8.5	2000 Pcs	ANR5020	Φ330±2.0	12.5	2500 Pcs
ANR3012	Φ178±2.0	8.5	2000 Pcs	ANR5040	Φ330±2.0	12.5	1500 Pcs
ANR3015	Φ178±2.0	8.5	2000 Pcs	ANR5045	Φ330±2.0	12.5	1500 Pcs
ANR4010	Φ330±2.0	12.5	4500 Pcs	ANR6020	Φ330±2.0	12.5	2500 Pcs
ANR4012	Φ330±2.0	12.5	4500 Pcs	ANR6028	Φ330±2.0	12.5	2000 Pcs
ANR4018	Φ330±2.0	12.5	3000 Pcs	ANR6045	Φ330±2.0	12.5	1500 Pcs
ANR4020	Φ330±2.0	12.5	3000 Pcs	ANR8040	Φ330±2.0	16.5	1000 Pcs
ANR4026	Φ330±2.0	12.5	2500 Pcs	ANR8065	Φ330±2.0	16.5	700 Pcs

- Peel-off strength:10～100gf.
- Peel-off angle:165°-180°.
- Peel-off speed:300mm/min.



PRECAUTIONS ON USE

- Precautions.

- 1.Surface mounting

☆ Mounting and soldering condition should be checked beforehand.

☆ Applicable soldering process to this product is reflow soldering only.

☆ Recommended conditions for repair by soldering iron:

Preheat the circuit board with product to repair at 150℃ for about 1 minute.
Put soldering iron on the land-pattern.
Soldering iron's temperature: 350℃ maximum/Duration: 3 seconds maximum/1 time for each terminal.
The soldering iron should not directly touch the inductor.
Product once removes from the circuit board may not be used again.Put soldering iron on the land-pattern.

- 2.Handing

☆ Keep the products away from all magnets and magnetic objects.

☆ Be careful not to subject the products to excessive mechanical shocks.

☆ Please avoid applying impact to the products after mounted on pc board.

☆ Avoid ultrasonic cleaning.

- 3.Storage

☆ To maintain the solderability of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the storage area should be controlled.

☆ Recommended conditions: -10℃~40℃, 70%RH (Max.)

☆ Even under ideal storage conditions, solderability of products electrodes may decrease as time passes. For this reason, product should be used with one year from the time of delivery.

☆ In case of storage over 6 months, solderability shall be checked before actual usage.

- 4.Guarantee

☆ The guaranteed operating conditions of the products are in accordance with the conditions specified in this specification.

☆ Please note that APV takes no responsibility for any failure and/or abnormality which is caused by use under other than the aforesaid operating conditions.

SAFETY REMINDERS

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● All products listed in this specification are developed, designed and intended for use in general electronics equipment. The products are not designed or Warranted to meet the requirements of the applications listed below, whose performance and/or quality require especially high reliability, or whose failure, malfunction or trouble might directly cause damage to society, person, or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below. Please contact us for more details if you intend to use our products in the following applications.

☆ 1.Aerospace/aviation equipment

☆ 2.Transportation equipment (cars, electric trains, ships, etc.)

☆ 3.Medical equipment

☆ 4.Power-generation control equipment

☆ 5.Atomic energy-related equipment

☆ 6.Seabed equipment

☆ 7.Transportation control equipment

☆ 8.Public information-processing equipment

☆ 9.Military equipment

☆ 10.Electric heating apparatus, burning equipment

☆ 11.Disaster prevention/crime prevention equipment

☆ 12.Safety equipment

☆ 13.Other applications that are not considered general-purpose applications

● When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.