FEATURES

- Lowest molded height in this package Footprint.
- Shielded construction.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.
- Encapsulated body offers improved environmental protection and moisture resistance.
- Corrosion resistant package.
- Operating Temperature:-40℃ ~ +125℃ .

APPLICATIONS

- PDA,noteboo,desktop,server applications.
- High current POL converters.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.
- DC/DC converter for Field Programmable Gate Array.
- RoHS, REACH Compliance.

PART NUMBERING

APH	0420	T	2R2	M	K1
① Series Name	② External Dimensions	③ Feature Type	④ Nominal Inductance	⑤ Inductance Tolerance	⑥ Design Code

① Series Name	
APH	Molded SMD Power Inductors

③Feature Type	
T	Standard

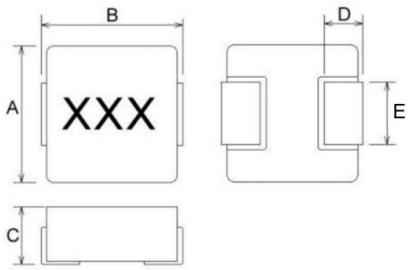
④Nominal inductance	
Code (example)	Nominal inductance ［μH］
4R7	4.7
100	10
101	100

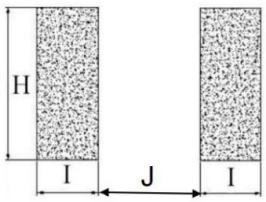
⑤Inductance tolerance	
Code (example)	Inductance tolerance
M	±20%

⑥Design Code	
K1	With Special Mark

②External Dimensions(L×W×H) [mm]	
0412	4.4x4.2x1
0420	4.4x4.2x1.8
0518	5.4x5.2x1.6
0530	5.4x5.2x2.8
0615	7x6.6x1.3
0618	7x6.6x1.6
0620	7x6.6x1.8
0624	7x6.6x2.2
0630	7x6.6x2.8
0640	7x6.6x3.8
0650	7x6.6x4.8
0840	8.8x8x3.8
0850	8.8x8x4.8
1030	11x10x2.8
1040	11x10x3.8
1050	11x10x4.8
1240	13.45x12.8x3.8
1250	13.45x12.8x4.8
1260	13.45x12.8x5.8
1265	13.45x12.8x6.5
1770	17.65x17.15x6.7
2213	23.5x22x12.6

DIMENSIONS & RECOMMENDED LAND PATTERN





Recommended Land Pattern

Unit: mm

Dimensions						Recommended Land Pattern		
Series	A	B	C	D Typ.	E Typ.	I Typ.	J Typ.	H Typ.
APH0412	4.2±0.25	4.4±0.35	1.0±0.2	0.8	2.0	1.5	2.2	2.5
APH0420	4.2±0.25	4.4±0.35	1.8±0.2	0.8	2.0	1.5	2.2	2.5
APH0518	5.2±0.3	5.4±0.35	1.6±0.2	1.3	2.2	1.9	2.2	2.5
APH0530	5.2±0.3	5.4±0.35	2.8±0.2	1.3	2.2	1.9	2.2	2.5
APH0615	6.6±0.3	7.0±0.3	1.3±0.2	1.7	3.0	2.35	3.7	3.5
APH0618	6.6±0.3	7.0±0.3	1.6±0.2	1.7	3.0	2.35	3.7	3.5
APH0620	6.6±0.3	7.0±0.3	1.8±0.2	1.7	3.0	2.35	3.7	3.5
APH0624	6.6±0.3	7.0±0.3	2.2±0.2	1.7	3.0	2.35	3.7	3.5
APH0630	6.6±0.3	7.0±0.3	2.8±0.2	1.7	3.0	2.35	3.7	3.5
APH0640	6.6±0.3	7.0±0.3	3.8±0.2	1.7	3.0	2.35	3.7	3.5
APH0650	6.6±0.3	7.0±0.3	4.8±0.2	1.7	3.0	2.35	3.7	3.5
APH0840	8.0±0.5	8.8±0.5	3.8±0.2	1.8	3.0	3	4.0	4.1
APH0850	8.0±0.5	8.8±0.5	4.8±0.2	1.8	3.0	3	4.0	4.1
APH1030	10.0±0.3	11.0±0.5	2.8±0.2	2.0	3.0	4.1	5.4	4.1
APH1040	10.0±0.3	11.0±0.5	3.8±0.2	2.0	3.0	4.1	5.4	4.1
APH1050	10.0±0.3	11.0±0.5	4.8±0.2	2.0	3.0	4.1	5.4	4.1
APH1240	12.8±0.3	13.45±0.35	3.8±0.2	2.5	4.0	4.1	6.5	5.5
APH1250	12.8±0.3	13.45±0.35	4.8±0.2	2.5	4.0	4.1	6.5	5.5
APH1260	12.8±0.3	13.45±0.35	5.8±0.2	2.5	4.0	4.1	6.5	5.5
APH1265	12.8±0.3	13.45±0.35	6.5Max.	2.5	4.0	4.1	6.5	5.5
APH1770	17.15±0.3	17.65±0.5	6.7±0.3	2.5	12	3.5	11.2	12.8
APH2213	22.0±0.3	23.5±0.5	12.6±0.4	5.0	19	5.75	12.5	19.6

ELECTRICAL CHARACTERISTICS

APH0412-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0412TR15MK1	0.15	±20%	6.91	7.50	12.45	15.00	9	R15
APH0412TR22MK1	0.22	±20%	6.58	7.00	9.13	11.00	11	R22
APH0412TR33MK1	0.33	±20%	5.82	6.50	6.96	8.40	19	R33
APH0412TR47MK1	0.47	±20%	5.32	6.00	5.61	6.80	21	R47
APH0412TR68MK1	0.68	±20%	4.28	4.70	4.98	6.00	36	R68
APH0412T1R0MK1	1	±20%	3.91	4.50	4.57	5.50	47	1R0
APH0412T1R5MK1	1.5	±20%	2.78	3.25	3.32	4.00	75	1R5
APH0412T2R2MK1	2.2	±20%	2.28	2.75	2.49	3.00	83.5	2R2
APH0412T3R3MK1	3.3	±20%	1.80	2.00	2.43	2.70	160	3R3
APH0412T4R7MK1	4.7	±20%	1.50	1.80	1.86	2.20	195	4R7

APH0420-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0420TR10MK1	0.1	±20%	11.47	13.00	18.26	22.00	4	R10
APH0420TR22MK1	0.22	±20%	8.40	9.50	10.38	12.50	6.6	R22
APH0420TR33MK1	0.33	±20%	8.81	10.00	9.96	12.00	11	R33
APH0420TR47MK1	0.47	±20%	6.78	7.50	7.89	9.50	14	R47
APH0420TR56MK1	0.56	±20%	6.24	7.00	7.47	9.00	16	R56
APH0420TR68MK1	0.68	±20%	6.28	7.00	6.64	8.00	18	R68
APH0420T1R0MK1	1	±20%	5.49	6.00	5.81	7.00	27	1R0
APH0420T1R2MK1	1.2	±20%	5.49	6.00	5.40	6.50	27	1R2
APH0420T1R5MK1	1.5	±20%	4.41	5.00	4.57	5.50	46	1R5
APH0420T2R2MK1	2.2	±20%	3.91	4.50	4.15	5.00	58	2R2
APH0420T3R3MK1	3.3	±20%	2.88	3.30	2.91	3.50	87	3R3
APH0420T4R7MK1	4.7	±20%	2.29	2.80	2.49	3.00	105	4R7
APH0420T6R8MK1	6.8	±20%	1.98	2.40	2.08	2.50	175	6R8
APH0420T100MK1	10	±20%	1.35	1.60	1.66	2.00	282	100
APH0420T220MK1	22	±20%	0.95	1.20	1.16	1.40	363	220

APH0518-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0518TR47MK1	0.47	±20%	9.65	10.50	9.96	12.00	9	R47
APH0518TR56MK1	0.56	±20%	8.40	9.50	9.13	11.00	10	R56

ELECTRICAL CHARACTERISTICS

APH0518-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0518TR68MK1	0.68	±20%	7.85	8.70	9.48	10.50	13.8	R68
APH0518T1R0MK1	1	±20%	7.32	8.00	7.47	9.00	17	1R0
APH0518T1R5MK1	1.5	±20%	6.74	7.50	6.64	8.00	26	1R5
APH0518T2R2MK1	2.2	±20%	4.32	5.00	4.98	6.00	35	2R2
APH0518T3R3MK1	3.3	±20%	3.91	4.50	3.98	4.80	58	3R3
APH0518T4R7MK1	4.7	±20%	3.08	3.50	3.32	4.00	85	4R7
APH0518T6R8MK1	6.8	±20%	2.46	2.80	2.82	3.40	120	6R8
APH0518T100MK1	10	±20%	2.25	2.50	2.08	2.50	155	100

APH0530-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0530TR10MK1	0.1	±20%	23.30	25.00	24.90	30.00	3	R10
APH0530TR20MK1	0.2	±20%	13.15	14.00	16.60	20.00	4.1	R20
APH0530TR33MK1	0.33	±20%	13.24	14.00	14.94	18.00	5.5	R33
APH0530TR47MK1	0.47	±20%	10.15	11.00	12.45	15.00	8.5	R47
APH0530TR68MK1	0.68	±20%	8.32	9.00	9.55	11.50	12	R68
APH0530TR82MK1	0.82	±20%	9.23	10.50	9.40	10.50	10.4	R82
APH0530T1R0MK1	1	±20%	7.91	8.50	8.30	10.00	14	1R0
APH0530T1R2MK1	1.2	±20%	7.95	8.50	7.89	9.50	16	1R2
APH0530T1R5MK1	1.5	±20%	7.69	8.20	7.47	9.00	25	1R5
APH0530T2R2MK1	2.2	±20%	6.49	7.00	5.81	7.00	29	2R2
APH0530T3R3MK1	3.3	±20%	5.08	5.50	4.98	6.00	38	3R3
APH0530T4R7MK1	4.7	±20%	4.08	4.50	3.82	4.60	60	4R7
APH0530T6R8MK1	6.8	±20%	2.99	3.50	2.99	3.60	90	6R8
APH0530T100MK1	10	±20%	2.86	3.20	2.91	3.50	125	100
APH0530T150MK1	15	±20%	1.63	1.80	2.03	2.20	170	150

APH0615-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0615TR47MK1	0.47	±20%	9.02	10.00	14.44	16.00	8.5	R47
APH0615TR56MK1	0.56	±20%	8.12	9.00	12.62	14.00	11	R56

ELECTRICAL CHARACTERISTICS

APH0615-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0615TR68MK1	0.68	±20%	7.67	8.50	10.83	12.00	12	R68
APH0615TR82MK1	0.82	±20%	7.22	8.00	9.02	10.00	17	R82
APH0615T1R0MK1	1	±20%	5.41	6.00	8.12	9.00	21	1R0
APH0615T2R2MK1	2.2	±20%	3.43	3.80	6.31	7.00	54	2R2
APH0615T3R3MK1	3.3	±20%	3.16	3.50	4.96	5.50	63	3R3
APH0615T4R7MK1	4.7	±20%	2.89	3.20	4.51	5.00	85	4R7
APH0615T6R8MK1	6.8	±20%	2.25	2.50	3.61	4.00	135	6R8
APH0615T100MK1	10	±20%	1.80	2.00	2.70	3.00	175	100
APH0615T220MK1	22	±20%	1.33	1.40	2.25	2.50	510	220

APH0618-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0618TR10MK1	0.1	±20%	23.30	25.00	31.54	38.00	2.3	R10
APH0618TR22MK1	0.22	±20%	20.30	22.00	19.92	24.00	3.5	R22
APH0618TR47MK1	0.47	±20%	10.23	11.50	14.94	18.00	8.4	R47
APH0618TR68MK1	0.68	±20%	8.57	9.50	13.70	16.50	12	R68
APH0618T1R0MK1	1	±20%	7.74	8.50	9.96	12.00	16	1R0
APH0618T1R5MK1	1.5	±20%	7.24	8.00	7.64	9.20	26	1R5
APH0618T2R2MK1	2.2	±20%	6.32	7.00	6.64	8.00	35	2R2
APH0618T3R3MK1	3.3	±20%	3.91	4.50	4.98	6.00	50	3R3
APH0618T4R7MK1	4.7	±20%	3.58	4.00	4.15	5.00	62	4R7
APH0618T6R8MK1	6.8	±20%	2.49	3.00	3.74	4.50	110	6R8
APH0618T8R2MK1	8.2	±20%	2.15	2.40	3.01	3.60	135	8R2
APH0618T100MK1	10	±20%	2.00	2.30	3.32	4.00	155	100
APH0618T220MK1	22	±20%	1.46	1.80	1.91	2.30	350	220

APH0620-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0620T1R5MK1	1.5	±20%	7.15	8.00	10.30	12.00	26	1R5
APH0620T4R7MK1	4.7	±20%	3.52	4.30	4.57	5.50	60	4R7
APH0620T100MK1	10	±20%	2.31	2.80	3.34	4.00	145	100

ELECTRICAL CHARACTERISTICS

APH0624-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0624TR22MK1	0.22	±20%	19.30	21.00	24.90	30.00	3	R22
APH0624TR33MK1	0.33	±20%	16.30	18.00	20.34	24.50	4.1	R33
APH0624TR47MK1	0.47	±20%	13.73	15.00	16.60	20.00	5.1	R47
APH0624TR56MK1	0.56	±20%	11.73	13.00	14.11	17.00	6.5	R56
APH0624TR68MK1	0.68	±20%	10.73	12.00	13.28	16.00	7	R68
APH0624T1R0MK1	1	±20%	8.15	9.00	12.45	15.00	13.5	1R0
APH0624T1R5MK1	1.5	±20%	7.18	8.20	11.21	13.50	20	1R5
APH0624T2R2MK1	2.2	±20%	6.32	7.00	8.30	10.00	28	2R2
APH0624T3R3MK1	3.3	±20%	4.91	5.50	6.64	8.00	39	3R3
APH0624T4R7MK1	4.7	±20%	4.41	5.00	5.40	6.50	50	4R7
APH0624T6R8MK1	6.8	±20%	3.32	4.00	4.98	6.00	70	6R8
APH0624T100MK1	10	±20%	2.51	3.10	3.32	4.00	101	100
APH0624T150MK1	15	±20%	2.08	2.50	2.74	3.30	160	150
APH0624T220MK1	22	±20%	1.66	2.00	2.08	2.50	230	220

APH0630-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0630TR10MK1	0.1	±20%	29.10	32.50	54.05	60.00	1.7	R10
APH0630TR12MK1	0.12	±20%	32.90	38.00	31.50	40.00	0.75	R12
APH0630TR22MK1	0.22	±20%	21.45	24.00	28.22	34.00	3	R22
APH0630TR24MK1	0.24	±20%	19.09	23.00	23.24	28.00	3.1	R24
APH0630TR33MK1	0.33	±20%	19.30	21.00	20.75	25.00	3.5	R33
APH0630TR47MK1	0.47	±20%	16.73	18.00	16.60	20.00	4.1	R47
APH0630TR56MK1	0.56	±20%	15.23	16.50	14.94	18.00	4.5	R56
APH0630TR68MK1	0.68	±20%	14.73	16.00	14.11	17.00	5.3	R68
APH0630TR82MK1	0.82	±20%	12.73	14.00	13.28	16.00	6	R82
APH0630T1R0MK1	1	±20%	10.73	12.00	12.45	15.00	7.4	1R0
APH0630T1R5MK1	1.5	±20%	10.73	12.00	9.96	12.00	12.1	1R5
APH0630T1R8MK1	1.8	±20%	8.37	9.30	9.76	11.80	12.6	1R8
APH0630T2R2MK1	2.2	±20%	8.65	9.50	8.30	10.00	15	2R2
APH0630T3R3MK1	3.3	±20%	7.65	8.50	7.89	9.50	27	3R3
APH0630T4R7MK1	4.7	±20%	5.15	6.00	7.47	9.00	33	4R7
APH0630T5R6MK1	5.6	±20%	4.91	5.50	5.40	6.50	42	5R6
APH0630T6R8MK1	6.8	±20%	4.32	5.00	4.98	6.00	48	6R8
APH0630T8R2MK1	8.2	±20%	4.32	5.00	4.57	5.50	60	8R2
APH0630T100MK1	10	±20%	3.91	4.50	4.57	5.50	68	100
APH0630T150MK1	15	±20%	2.41	3.00	3.32	4.00	113	150

ELECTRICAL CHARACTERISTICS

APH0630-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0630T220MK1	22	±20%	2.08	2.50	2.49	3.00	170	220
APH0630T330MK1	33	±20%	1.66	2.00	2.08	2.50	270	330
APH0630T470MK1	47	±20%	1.25	1.50	1.66	2.00	385	470

APH0640-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0640TR68MK1	0.68	±20%	13.93	17.00	15.83	19.00	4.8	R68
APH0640T1R0MK1	1	±20%	11.07	13.50	13.33	16.00	6.6	1R0
APH0640T1R5MK1	1.5	±20%	10.16	12.40	10.42	12.50	10	1R5
APH0640T2R2MK1	2.2	±20%	8.13	10.00	9.13	11.00	14	2R2
APH0640T3R3MK1	3.3	±20%	6.97	8.50	7.92	9.50	20	3R3
APH0640T4R7MK1	4.7	±20%	6.08	6.50	7.47	9.00	30	4R7
APH0640T6R8MK1	6.8	±20%	4.51	5.50	5.42	6.50	45	6R8
APH0640T100MK1	10	±20%	3.93	4.80	5.00	6.00	65	100
APH0640T150MK1	15	±20%	2.94	3.70	3.74	4.50	95	150
APH0640T220MK1	22	±20%	2.70	3.30	3.33	4.00	125	220
APH0640T330MK1	33	±20%	1.80	2.20	2.50	3.00	240	330
APH0640T470MK1	47	±20%	1.48	1.80	2.08	2.50	320	470

APH0650-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0650TR47MK1	0.47	±20%	17.45	20.00	17.43	21.00	3.9	R47
APH0650TR68MK1	0.68	±20%	14.80	16.50	14.94	18.00	4.5	R68
APH0650T1R0MK1	1	±20%	10.30	12.00	13.28	16.00	6.6	1R0
APH0650T1R5MK1	1.5	±20%	8.40	9.50	10.79	13.00	10	1R5
APH0650T2R2MK1	2.2	±20%	8.15	9.00	9.13	11.00	12.5	2R2
APH0650T3R3MK1	3.3	±20%	7.74	8.50	8.30	10.00	22	3R3
APH0650T4R7MK1	4.7	±20%	5.15	6.00	6.64	8.00	29	4R7
APH0650T6R8MK1	6.8	±20%	4.27	5.80	5.23	6.30	41	6R8
APH0650T8R2MK1	8.2	±20%	4.91	5.50	4.57	5.50	48	8R2
APH0650T100MK1	10	±20%	3.91	4.50	4.40	5.30	60	100
APH0650T150MK1	15	±20%	2.68	3.10	3.32	4.00	90	150
APH0650T220MK1	22	±20%	2.09	2.60	2.91	3.50	140	220

ELECTRICAL CHARACTERISTICS

APH0650-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0650T330MK1	33	±20%	1.88	2.30	2.49	3.00	190	330
APH0650T470MK1	47	±20%	1.58	2.00	2.16	2.60	230	470

APH0840-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0840TR22MK1	0.22	±20%	30.90	36.00	55.75	60.00	1.8	R22
APH0840TR33MK1	0.33	±20%	25.75	30.00	40.75	45.00	2.4	R33
APH0840TR47MK1	0.47	±20%	25.45	28.00	36.90	42.00	2.8	R47
APH0840TR56MK1	0.56	±20%	22.30	24.00	23.45	26.00	3.2	R56
APH0840TR68MK1	0.68	±20%	21.30	23.00	22.30	24.00	3.8	R68
APH0840TR82MK1	0.82	±20%	19.30	21.00	19.30	21.00	4.4	R82
APH0840T1R0MK1	1	±20%	17.30	19.00	17.30	19.00	4.62	1R0
APH0840T1R5MK1	1.5	±20%	15.30	17.00	15.30	17.00	7.6	1R5
APH0840T1R8MK1	1.8	±20%	12.88	15.00	13.73	15.00	11	1R8
APH0840T2R2MK1	2.2	±20%	12.30	14.00	12.30	14.00	11.4	2R2
APH0840T3R3MK1	3.3	±20%	10.30	12.00	11.23	12.50	15	3R3
APH0840T4R7MK1	4.7	±20%	8.65	9.50	10.65	11.50	26.5	4R7
APH0840T5R6MK1	5.6	±20%	8.15	9.00	10.15	11.00	30	5R6
APH0840T6R8MK1	6.8	±20%	7.15	8.00	8.15	9.00	36.8	6R8
APH0840T8R2MK1	8.2	±20%	6.15	7.00	7.85	8.70	46	8R2
APH0840T100MK1	10	±20%	5.65	6.50	7.15	8.00	59	100
APH0840T150MK1	15	±20%	4.89	5.40	4.99	5.50	71	150
APH0840T220MK1	22	±20%	4.29	4.80	4.58	5.00	113	220
APH0840T330MK1	33	±20%	3.08	3.50	3.33	3.50	156	330
APH0840T470MK1	47	±20%	2.56	2.90	2.93	3.10	225	470

APH0850-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0850T2R2MK1	2.2	±20%	11.05	13.00	12.75	15.00	10	2R2
APH0850T3R3MK1	3.3	±20%	9.35	11.00	11.90	14.00	15	3R3
APH0850T4R7MK1	4.7	±20%	6.80	8.00	11.05	13.00	22	4R7
APH0850T6R8MK1	6.8	±20%	6.38	7.50	8.93	10.50	28	6R8
APH0850T100MK1	10	±20%	5.10	6.00	7.65	9.00	38	100

ELECTRICAL CHARACTERISTICS

APH0850-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH0850T150MK1	15	±20%	4.68	5.50	5.95	7.00	52	150
APH0850T220MK1	22	±20%	3.57	4.20	5.10	6.00	82	220
APH0850T330MK1	33	±20%	2.98	3.50	4.68	5.50	140	330
APH0850T470MK1	47	±20%	1.87	2.20	3.23	3.80	190	470
APH0850T560MK1	56	±20%	2.13	2.50	2.98	3.50	185	560
APH0850T680MK1	68	±20%	1.70	2.00	2.98	3.50	300	680
APH0850T101MK1	100	±20%	1.28	1.50	2.13	2.50	400	101

APH1030-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1030TR22MK1	0.22	±20%	29.77	33.00	45.10	50.00	1.2	R22
APH1030TR33MK1	0.33	±20%	20.75	23.00	28.86	32.00	1.6	R33
APH1030TR36MK1	0.36	±20%	20.75	23.00	25.28	28.00	1.6	R36
APH1030TR47MK1	0.47	±20%	19.85	22.00	23.45	26.00	2.5	R47
APH1030TR82MK1	0.82	±20%	16.24	18.00	20.75	23.00	3.7	R82
APH1030T1R0MK1	1	±20%	13.53	15.00	18.94	21.00	6	1R0
APH1030T1R5MK1	1.5	±20%	11.73	13.00	18.04	20.00	7.5	1R5
APH1030T2R2MK1	2.2	±20%	9.92	11.00	12.62	14.00	9	2R2
APH1030T3R3MK1	3.3	±20%	8.12	9.00	10.82	12.00	16	3R3
APH1030T4R7MK1	4.7	±20%	6.31	7.00	9.01	10.00	22.5	4R7
APH1030T8R2MK1	8.2	±20%	4.51	5.00	6.32	7.00	45	8R2
APH1030T100MK1	10	±20%	4.06	4.50	5.86	6.50	55	100
APH1030T330MK1	33	±20%	2.35	2.60	3.60	4.00	160	330

APH1040-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1040TR13MK1	0.13	±20%	64.35	72.00	67.35	92.00	0.52	R13
APH1040TR15MK1	0.15	±20%	40.75	45.00	62.25	75.00	0.65	R15
APH1040TR22MK1	0.22	±20%	30.75	35.00	49.80	60.00	1	R22
APH1040TR30MK1	0.3	±20%	30.75	35.00	37.35	45.00	1.1	R30
APH1040TR36MK1	0.36	±20%	25.75	30.00	37.35	45.00	1.2	R36
APH1040TR45MK1	0.45	±20%	25.75	30.00	35.35	43.00	1.5	R45
APH1040TR47MK1	0.47	±20%	25.75	30.00	33.20	40.00	1.7	R47

ELECTRICAL CHARACTERISTICS

APH1040-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1040TR56MK1	0.56	±20%	20.75	25.00	27.39	33.00	1.8	R56
APH1040TR68MK1	0.68	±20%	19.60	23.00	24.90	30.00	2.4	R68
APH1040TR80MK1	0.8	±20%	19.60	23.00	24.07	29.00	2.7	R80
APH1040T1R0MK1	1	±20%	16.45	19.00	23.24	28.00	4.3	1R0
APH1040T1R5MK1	1.5	±20%	14.30	16.00	19.92	24.00	5.5	1R5
APH1040T2R2MK1	2.2	±20%	10.30	12.00	13.70	16.50	8	2R2
APH1040T3R3MK1	3.3	±20%	9.73	11.00	13.28	16.00	11.8	3R3
APH1040T4R7MK1	4.7	±20%	7.73	9.00	10.79	13.00	20	4R7
APH1040T6R8MK1	6.8	±20%	7.23	8.50	9.96	12.00	25	6R8
APH1040T8R2MK1	8.2	±20%	6.98	8.00	7.47	9.00	27	8R2
APH1040T100MK1	10	±20%	7.04	7.80	7.06	8.50	30	100
APH1040T150MK1	15	±20%	5.74	6.50	5.81	7.00	45	150
APH1040T220MK1	22	±20%	4.32	5.00	4.57	5.50	66	220
APH1040T330MK1	33	±20%	3.89	4.40	3.98	4.80	92	330
APH1040T470MK1	47	±20%	2.88	3.30	3.16	3.50	145	470
APH1040T680MK1	68	±20%	2.08	2.50	2.49	3.00	195	680
APH1040T820MK1	82	±20%	2.13	2.30	2.38	2.80	285	820
APH1040T101MK1	100	±20%	1.83	2.00	2.13	2.30	340	101

APH1050-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1050TR22MK1	0.22	±20%	33.18	37.00	58.63	65.00	0.8	R22
APH1050TR68MK1	0.68	±20%	21.30	23.00	34.45	37.00	1.95	R68
APH1050T1R0MK1	1	±20%	20.71	23.00	28.30	30.00	3	1R0
APH1050T1R5MK1	1.5	±20%	18.88	21.00	22.45	25.00	3.8	1R5
APH1050T2R2MK1	2.2	±20%	13.47	15.00	17.13	19.00	6	2R2
APH1050T3R3MK1	3.3	±20%	11.73	13.00	14.30	16.00	10	3R3
APH1050T4R7MK1	4.7	±20%	9.90	11.00	13.47	15.00	14	4R7
APH1050T5R6MK1	5.6	±20%	8.65	9.50	12.56	14.00	17	5R6
APH1050T6R8MK1	6.8	±20%	8.15	9.00	12.56	14.00	18.5	6R8
APH1050T100MK1	10	±20%	7.15	8.00	8.98	10.00	28	100
APH1050T150MK1	15	±20%	5.82	6.50	6.65	7.50	42	150
APH1050T220MK1	22	±20%	5.08	5.50	5.41	6.00	50	220
APH1050T330MK1	33	±20%	4.29	4.80	4.69	5.20	86	330
APH1050T470MK1	47	±20%	3.28	3.70	4.08	4.50	127	470
APH1050T680MK1	68	±20%	2.45	2.70	2.86	3.20	185	680

ELECTRICAL CHARACTERISTICS

APH1050-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1050T820MK1	82	±20%	1.75	2.00	3.08	3.50	280	820
APH1050T101MK1	100	±20%	1.85	2.10	2.55	2.80	290	101

APH1240-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1240TR22MK1	0.22	±20%	38.60	42.00	41.50	50.00	0.9	R22
APH1240TR47MK1	0.47	±20%	29.60	33.00	39.84	48.00	2	R47
APH1240TR68MK1	0.68	±20%	24.60	28.00	39.01	47.00	3.5	R68
APH1240TR82MK1	0.82	±20%	24.60	28.00	33.20	40.00	4.5	R82
APH1240T1R0MK1	1	±20%	20.60	24.00	29.05	35.00	7.5	1R0
APH1240T1R5MK1	1.5	±20%	17.45	20.00	25.32	30.50	9.5	1R5
APH1240T2R2MK1	2.2	±20%	15.45	18.00	21.58	26.00	11.5	2R2
APH1240T3R3MK1	3.3	±20%	13.30	15.00	17.43	21.00	13	3R3
APH1240T4R7MK1	4.7	±20%	11.30	13.00	14.94	18.00	14.5	4R7
APH1240T6R8MK1	6.8	±20%	8.15	9.00	11.62	14.00	20	6R8
APH1240T100MK1	10	±20%	7.15	8.00	8.30	10.00	25	100
APH1240T150MK1	15	±20%	5.91	6.50	6.23	7.50	39	150
APH1240T220MK1	22	±20%	3.91	4.50	4.98	6.00	51	220

APH1250-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1250TR22MK1	0.22	±20%	45.75	50.00	62.25	75.00	0.7	R22
APH1250TR36MK1	0.36	±20%	37.75	42.00	41.50	50.00	0.85	R36
APH1250TR50MK1	0.5	±20%	33.75	38.00	39.84	48.00	1.15	R50
APH1250TR68MK1	0.68	±20%	29.60	33.00	38.18	46.00	1.55	R68
APH1250TR82MK1	0.82	±20%	26.60	30.00	32.37	39.00	1.67	R82
APH1250T1R0MK1	1	±20%	22.60	26.00	29.05	35.00	2.2	1R0
APH1250T1R5MK1	1.5	±20%	19.60	23.00	27.39	33.00	3.2	1R5
APH1250T2R2MK1	2.2	±20%	13.30	15.00	19.92	24.00	5	2R2
APH1250T3R3MK1	3.3	±20%	12.30	14.00	18.26	22.00	7	3R3
APH1250T4R7MK1	4.7	±20%	11.30	13.00	16.60	20.00	11	4R7
APH1250T6R8MK1	6.8	±20%	10.30	12.00	13.28	16.00	18	6R8
APH1250T100MK1	10	±20%	8.15	9.00	9.96	12.00	22	100

ELECTRICAL CHARACTERISTICS

APH1250-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1250T150MK1	15	±20%	7.15	8.00	8.30	10.00	30	150
APH1250T220MK1	22	±20%	3.91	4.50	5.40	6.50	58	220
APH1250T330MK1	33	±20%	2.91	3.50	4.98	6.00	84	330
APH1250T470MK1	47	±20%	2.66	3.00	4.15	5.00	130	470
APH1250T680MK1	68	±20%	2.05	2.40	3.50	4.10	183	680

APH1260-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1260T1R5MK1	1.5	±20%	23.60	27.00	27.45	30.00	2.9	1R5
APH1260T2R2MK1	2.2	±20%	18.60	22.00	24.60	28.00	4.2	2R2
APH1260T3R3MK1	3.3	±20%	14.45	17.00	21.60	25.00	6.8	3R3
APH1260T4R7MK1	4.7	±20%	12.45	15.00	19.92	24.00	9	4R7
APH1260T5R6MK1	5.6	±20%	11.30	13.00	18.68	22.50	11	5R6
APH1260T6R8MK1	6.8	±20%	10.30	12.00	15.77	19.00	13.5	6R8
APH1260T8R2MK1	8.2	±20%	9.30	11.00	11.21	13.50	16	8R2
APH1260T100MK1	10	±20%	8.73	10.00	11.31	12.50	20.7	100
APH1260T120MK1	12	±20%	7.98	9.00	8.30	10.00	23	120
APH1260T150MK1	15	±20%	7.65	8.50	7.47	9.00	29	150
APH1260T180MK1	18	±20%	6.65	7.50	6.64	8.00	35	180
APH1260T220MK1	22	±20%	6.15	7.00	6.23	7.50	39.5	220
APH1260T270MK1	27	±20%	5.15	6.00	5.40	6.50	56	270
APH1260T330MK1	33	±20%	4.91	5.50	4.98	6.00	75	330
APH1260T470MK1	47	±20%	4.32	5.00	4.57	5.50	90	470
APH1260T680MK1	68	±20%	3.32	4.00	3.74	4.50	140	680
APH1260T101MK1	100	±20%	2.58	3.00	2.91	3.50	200	101
APH1260T121MK1	120	±20%	1.75	2.00	2.66	3.20	235	121
APH1260T151MK1	150	±20%	1.25	1.50	2.24	2.70	350	151

APH1265-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1265TR33MK1	0.33	±20%	38.50	43.00	47.50	57.00	0.84	R33
APH1265TR47MK1	0.47	±20%	34.80	39.00	43.30	52.00	1.1	R47
APH1265TR68MK1	0.68	±20%	30.10	34.00	39.20	47.00	1.5	R68

ELECTRICAL CHARACTERISTICS

APH1265-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1265TR82MK1	0.82	±20%	27.50	31.00	35.00	42.00	1.65	R82
APH1265T1R0MK1	1	±20%	24.80	29.00	32.10	38.50	2.1	1R0
APH1265T1R5MK1	1.5	±20%	23.50	27.50	28.30	34.00	2.9	1R5
APH1265T2R2MK1	2.2	±20%	19.20	22.50	25.80	31.00	4.2	2R2
APH1265T3R3MK1	3.3	±20%	16.70	19.50	24.20	29.00	6.4	3R3
APH1265T4R7MK1	4.7	±20%	13.70	16.00	20.00	24.00	8.5	4R7
APH1265T5R6MK1	5.6	±20%	12.00	14.00	18.80	22.50	10.5	5R6
APH1265T6R8MK1	6.8	±20%	11.10	13.00	15.80	19.00	13	6R8
APH1265T8R2MK1	8.2	±20%	10.30	12.00	13.30	16.00	14	8R2
APH1265T100MK1	10	±20%	9.40	11.00	12.50	15.00	16.5	100
APH1265T150MK1	15	±20%	8.10	9.50	9.20	11.00	37	150
APH1265T220MK1	22	±20%	6.80	8.00	7.50	9.00	44	220
APH1265T330MK1	33	±20%	5.60	6.50	6.70	8.00	65	330
APH1265T470MK1	47	±20%	4.70	5.50	5.70	6.80	90	470
APH1265T680MK1	68	±20%	4.10	4.80	4.30	5.20	120	680
APH1265T820MK1	82	±20%	3.40	4.00	3.80	4.50	135	820
APH1265T101MK1	100	±20%	3.00	3.50	3.30	4.00	170	101
APH1265T151MK1	150	±20%	1.50	1.70	2.30	2.80	257	151

APH1770-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH1770T1R0MK1	1	±20%	26.50	31.00	34.80	40.00	2	1R0
APH1770T2R2MK1	2.2	±20%	24.80	29.00	28.30	34.00	2.5	2R2
APH1770T3R3MK1	3.3	±20%	20.50	24.00	25.00	30.00	3.95	3R3
APH1770T4R7MK1	4.7	±20%	17.90	21.00	20.00	24.00	4.75	4R7
APH1770T6R8MK1	6.8	±20%	14.50	17.00	18.30	22.00	7.5	6R8
APH1770T8R2MK1	8.2	±20%	11.10	13.00	16.70	20.00	8.7	8R2
APH1770T100MK1	10	±20%	10.30	12.00	15.80	19.00	9.9	100
APH1770T150MK1	15	±20%	9.40	11.00	12.10	14.50	17	150
APH1770T220MK1	22	±20%	7.30	8.50	9.60	11.50	23	220
APH1770T330MK1	33	±20%	6.80	8.00	8.30	10.00	37	330
APH1770T470MK1	47	±20%	5.10	6.00	6.30	7.50	47	470
APH1770T680MK1	68	±20%	4.40	5.20	5.40	6.50	85	680
APH1770T101MK1	100	±20%	3.20	3.70	4.20	5.00	130	101

ELECTRICAL CHARACTERISTICS

● APH2213-K1 Series

Part Number	Inductance	Inductance Tolerance	Heat Rating Current		Saturation Current		DC Resistance	Marking
	@100kHz,1V		Max.	Typ.	Max.	Typ.	Typ.	
Units	μH	-	A		A		mΩ	
Symbol	L	-	Irms		Isat		DCR	
APH2213T2R2MK1	2.2	±20%	52.00	52.90	43.75	48.00	1.25	2R2
APH2213T4R7MK1	4.7	±20%	44.00	44.45	34.60	38.00	2.2	4R7
APH2213T100MK1	10	±20%	30.00	30.45	21.20	28.00	4.15	100
APH2213T150MK1	15	±20%	23.00	23.45	18.75	23.00	6.12	150
APH2213T680MK1	68	±20%	12.00	12.30	9.45	12.00	29.5	680

△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;
△The DC Resistance maximum from typical +30%;
△Irms: DC current that causes the temperature rise (△T =40°C) from 20°C ambient.

Note:
This series product is not applies in automotive or related products. Otherwise, we will shall not bear than the resulting all the problems of quality and responsibility.

Please be sure to request approval specifications that provide further details of the products. Kindly not that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without APV approval.