

SMD POWER INDUCTOR P34B SERIES

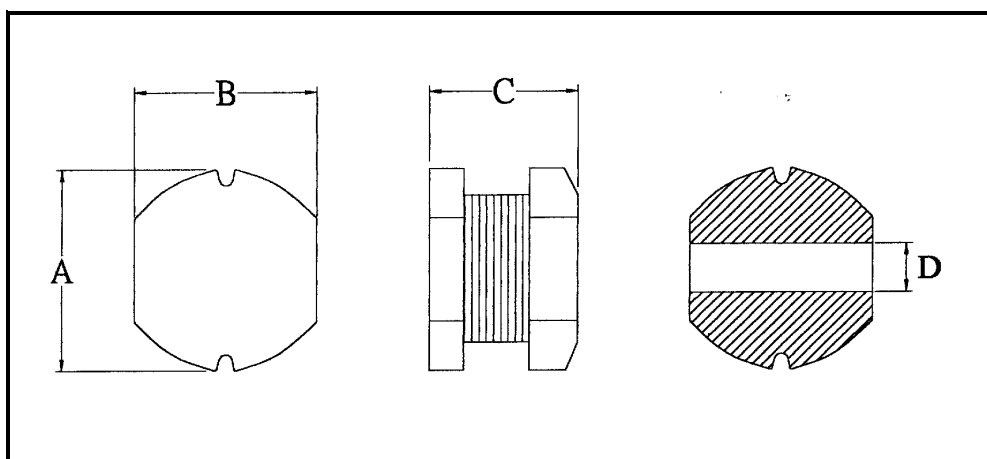
Application:

- ♦ Power supply for VTRS
- ♦ OA equipment
- ♦ LCD televisions
- ♦ Notebook PCs
- ♦ Portable communication equipment
- ♦ DC/DC converters, etc.

Features:

- ♦ Excellent solder-ability and high heat resistance for reflow soldering.
- ♦ For large current circuits due to low DC resistance.
- ♦ Excellent in terminal strength due to its high performances ferrite core material and solder ability.
- ♦ Provided with embossed carrier tape packaging for automatic mounting machines.

Configuration:

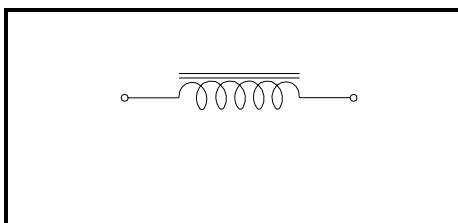


Dimensions:

UNIT : mm

SERIES	A	B	C	D	IND. RANGE
P34B0302	3.3 $\pm$ 0.2	3.0 $\pm$ 0.2	2.5 $\pm$ 0.2	1.2	3.3 μ H ~ 680 μ H
P34B0403	4.5 $\pm$ 0.2	4.0 $\pm$ 0.2	3.2 $\pm$ 0.2	1.5	1.0 μ H ~ 68 μ H
P34B0504	5.7 $\pm$ 0.2	5.2 $\pm$ 0.2	4.5 $\pm$ 0.2	2.0	10 μ H ~ 390 μ H
P34B0703	7.8 $\pm$ 0.2	7.0 $\pm$ 0.2	3.5 $\pm$ 0.2	2.5	10 μ H ~ 330 μ H
P34B0705	7.8 $\pm$ 0.2	7.0 $\pm$ 0.2	5.0 $\pm$ 0.2	2.5	10 μ H ~ 470 μ H
P34B1004	10.0 $\pm$ 0.3	9.0 $\pm$ 0.2	4.0 $\pm$ 0.2	3.0	10 μ H ~ 560 μ H
P34B1005	10.0 $\pm$ 0.3	9.0 $\pm$ 0.2	5.4 $\pm$ 0.2	3.0	10 μ H ~ 820 μ H
P34B1006	10.0 $\pm$ 0.3	9.0 $\pm$ 0.2	6.6 $\pm$ 0.2	3.0	10 μ H ~ 1500 μ H
P34B1008	10.0 $\pm$ 0.3	9.0 $\pm$ 0.2	8.6 $\pm$ 0.2	3.0	10 μ H ~ 4700 μ H

Schematics:



Specification: < P34B Series 0302 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34B0302 - 3R3MA	3.3 ±20%	2.52 MHZ	0.131	1.50
- 4R7MA	4.7 ±20%	2.52 MHZ	0.158	1.30
- 6R8MA	6.8 ±20%	2.52 MHZ	0.188	1.10
- 100MA	10.0 ±20%	2.52 MHZ	0.341	1.00
- 150MA	15.0 ±20%	2.52 MHZ	0.460	0.90
- 220MA	22.0 ±20%	2.52 MHZ	0.685	0.75
- 270MA	27.0 ±20%	2.52 MHZ	0.912	0.70
- 330MA	33.0 ±20%	2.52 MHZ	0.951	0.60
- 470MA	47.0 ±20%	2.52 MHZ	1.582	0.45
- 680MA	68.0 ±20%	2.52 MHZ	2.033	0.30
- 820MA	82.0 ±20%	2.52 MHZ	2.319	0.20
- 101MA	100 ±20%	1KHz	2.558	0.10
- 151MA	150 ±20%	1KHz	4.303	0.08
- 221MA	220 ±20%	1KHz	6.669	0.07
- 331MA	330 ±20%	1KHz	8.084	0.06
- 471MA	470 ±20%	1KHz	13.091	0.06
- 681MA	680 ±20%	1KHz	17.095	0.06

Specification: < P34B Series 0403 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34B0403 -1R0MA	1.0 ±20%	7.96 MHZ	0.049	2.56
- 1R4MA	1.4 ±20%	7.96 MHZ	0.057	2.52
- 1R8MA	1.8 ±20%	7.96 MHZ	0.064	1.95
- 2R2MA	2.2 ±20%	7.96 MHZ	0.072	1.75
- 2R7MA	2.7 ±20%	7.96 MHZ	0.079	1.58
- 3R3MA	3.3 ±20%	7.96 MHZ	0.087	1.44
- 3R9MA	3.9 ±20%	7.96 MHZ	0.094	1.33
- 4R7MA	4.7 ±20%	7.96 MHZ	0.109	1.15
- 5R6MA	5.6 ±20%	7.96 MHZ	0.126	0.99
- 6R8MA	6.8 ±20%	7.96 MHZ	0.132	0.95
- 8R2MA	8.2 ±20%	7.96 MHZ	0.147	0.84
- 100MA	10.0 ±20%	2.52 MHZ	0.182	1.04
- 120MA	12.0 ±20%	2.52 MHZ	0.210	0.97
- 150MA	15.0 ±20%	2.52 MHZ	0.235	0.85
- 180MA	18.0 ±20%	2.52 MHZ	0.338	0.74
- 220MA	22.0 ±20%	2.52 MHZ	0.378	0.68
- 270MA	27.0 ±20%	2.52 MHZ	0.522	0.62
- 330KA	33.0 ±10%	2.52 MHZ	0.540	0.56
- 390KA	39.0 ±10%	2.52 MHZ	0.587	0.52
- 470KA	47.0 ±10%	2.52 MHZ	0.844	0.44
- 560KA	56.0 ±10%	2.52 MHZ	0.937	0.42
- 680KA	68.0 ±10%	2.52 MHZ	1.117	0.37

Specification: < P34B Series 0504 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34B0504 - 100MA	10 $\pm$ 20%	2.52 MHZ	0.10	1.44
- 120MA	12 $\pm$ 20%	2.52 MHZ	0.12	1.40
- 150MA	15 $\pm$ 20%	2.52 MHZ	0.14	1.30
- 180MA	18 $\pm$ 20%	2.52 MHZ	0.15	1.23
- 220MA	22 $\pm$ 20%	2.52 MHZ	0.18	1.11
- 270MA	27 $\pm$ 20%	2.52 MHZ	0.20	0.97
- 330LA	33 $\pm$ 15%	2.52 MHZ	0.23	0.88
- 390LA	39 $\pm$ 15%	2.52 MHZ	0.32	0.80
- 470LA	47 $\pm$ 15%	2.52 MHZ	0.37	0.72
- 560KA	56 $\pm$ 10%	2.52 MHZ	0.42	0.68
- 680KA	68 $\pm$ 10%	2.52 MHZ	0.46	0.61
- 820KA	82 $\pm$ 10%	2.52 MHZ	0.60	0.58
- 101KA	100 $\pm$ 10%	1KHz	0.70	0.52
- 121KA	120 $\pm$ 10%	1KHz	0.93	0.48
- 151KA	150 $\pm$ 10%	1KHz	1.10	0.40
- 181KA	180 $\pm$ 10%	1KHz	1.38	0.38
- 221KA	220 $\pm$ 10%	1KHz	1.57	0.35
- 271KA	270 $\pm$ 10%	1KHz	1.73	0.33
- 331KA	330 $\pm$ 10%	1KHz	1.98	0.31
- 391KA	390 $\pm$ 10%	1KHz	2.47	0.29

Specification: < P34B Series 0703 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34B0703 -100MA	10 $\pm$ 20%	2.52 MHZ	0.081	1.44
- 120MA	12 $\pm$ 20%	2.52 MHZ	0.090	1.39
- 150MA	15 $\pm$ 20%	2.52 MHZ	0.104	1.24
- 180MA	18 $\pm$ 20%	2.52 MHZ	0.111	1.12
- 220MA	22 $\pm$ 20%	2.52 MHZ	0.129	1.07
- 270MA	27 $\pm$ 20%	2.52 MHZ	0.153	0.94
- 330MA	33 $\pm$ 20%	2.52 MHZ	0.170	0.85
- 390MA	39 $\pm$ 20%	2.52 MHZ	0.217	0.74
- 470MA	47 $\pm$ 20%	2.52 MHZ	0.252	0.68
- 560KA	56 $\pm$ 10%	2.52 MHZ	0.282	0.64
- 680KA	68 $\pm$ 10%	2.52 MHZ	0.332	0.59
- 820KA	82 $\pm$ 10%	2.52 MHZ	0.406	0.54
- 101KA	100 $\pm$ 10%	1KHz	0.481	0.51
- 121KA	120 $\pm$ 10%	1KHz	0.536	0.49
- 151KA	150 $\pm$ 10%	1KHz	0.755	0.40
- 181KA	180 $\pm$ 10%	1KHz	1.022	0.36
- 221KA	220 $\pm$ 10%	1KHz	1.200	0.31
- 271KA	270 $\pm$ 10%	1KHz	1.306	0.29
- 331KA	330 $\pm$ 10%	1KHz	1.495	0.28

Specification: < P34B Series 0705 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34B0705 - 100MA	10 $\pm$ 20%	2.52 MHZ	0.07	2.30
- 120MA	12 $\pm$ 20%	2.52 MHZ	0.08	2.00
- 150MA	15 $\pm$ 20%	2.52 MHZ	0.09	1.80
- 180MA	18 $\pm$ 20%	2.52 MHZ	0.10	1.60
- 220MA	22 $\pm$ 20%	2.52 MHZ	0.11	1.50
- 270MA	27 $\pm$ 20%	2.52 MHZ	0.12	1.30
- 330MA	33 $\pm$ 20%	2.52 MHZ	0.13	1.20
- 390MA	39 $\pm$ 20%	2.52 MHZ	0.16	1.10
- 470MA	47 $\pm$ 20%	2.52 MHZ	0.18	1.00
- 560KA	56 $\pm$ 10%	2.52 MHZ	0.24	0.94
- 680KA	68 $\pm$ 10%	2.52 MHZ	0.28	0.85
- 820KA	82 $\pm$ 10%	2.52 MHZ	0.37	0.78
- 101KA	100 $\pm$ 10%	1KHz	0.43	0.72
- 121KA	120 $\pm$ 10%	1KHz	0.47	0.66
- 151KA	150 $\pm$ 10%	1KHz	0.64	0.58
- 181KA	180 $\pm$ 10%	1KHz	0.71	0.51
- 221KA	220 $\pm$ 10%	1KHz	0.96	0.49
- 271KA	270 $\pm$ 10%	1KHz	1.11	0.42
- 331KA	330 $\pm$ 10%	1KHz	1.26	0.40
- 391KA	390 $\pm$ 10%	1KHz	1.77	0.36
- 471KA	470 $\pm$ 10%	1KHz	1.96	0.34

Specification: < P34B Series 1004 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34B1004 - 100MA	10 $\pm$ 20%	2.52 MHZ	0.053	2.38
- 120MA	12 $\pm$ 20%	2.52 MHZ	0.061	2.13
- 150MA	15 $\pm$ 20%	2.52 MHZ	0.070	1.87
- 180MA	18 $\pm$ 20%	2.52 MHZ	0.081	1.73
- 220MA	22 $\pm$ 20%	2.52 MHZ	0.088	1.60
- 270MA	27 $\pm$ 20%	2.52 MHZ	0.100	1.44
- 330MA	33 $\pm$ 20%	2.52 MHZ	0.120	1.26
- 390MA	39 $\pm$ 20%	2.52 MHZ	0.151	1.20
- 470MA	47 $\pm$ 20%	2.52 MHZ	0.170	1.10
- 560KA	56 $\pm$ 10%	2.52 MHZ	0.199	1.01
- 680KA	68 $\pm$ 10%	2.52 MHZ	0.223	0.91
- 820KA	82 $\pm$ 10%	2.52 MHZ	0.252	0.85
- 101KA	100 $\pm$ 10%	1KHz	0.344	0.74
- 121KA	120 $\pm$ 10%	1KHz	0.396	0.69
- 151KA	150 $\pm$ 10%	1KHz	0.544	0.61
- 181KA	180 $\pm$ 10%	1KHz	0.621	0.56
- 221KA	220 $\pm$ 10%	1KHz	0.721	0.53
- 271KA	270 $\pm$ 10%	1KHz	0.949	0.45
- 331KA	330 $\pm$ 10%	1KHz	1.100	0.42
- 391KA	390 $\pm$ 10%	1KHz	1.245	0.38
- 471KA	470 $\pm$ 10%	1KHz	1.526	0.35
- 561KA	560 $\pm$ 10%	1KHz	1.904	0.32

Specification: < P34B Series 1005 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34B1005 -100MA	10 $\pm$ 20%	2.52 MHZ	0.06	2.60
- 120MA	12 $\pm$ 20%	2.52 MHZ	0.07	2.45
- 150MA	15 $\pm$ 20%	2.52 MHZ	0.08	2.27
- 180MA	18 $\pm$ 20%	2.52 MHZ	0.09	2.15
- 220MA	22 $\pm$ 20%	2.52 MHZ	0.10	1.95
- 270MA	27 $\pm$ 20%	2.52 MHZ	0.11	1.76
- 330MA	33 $\pm$ 20%	2.52 MHZ	0.12	1.50
- 390MA	39 $\pm$ 20%	2.52 MHZ	0.14	1.37
- 470KA	47 $\pm$ 10%	2.52 MHZ	0.17	1.28
- 560KA	56 $\pm$ 10%	2.52 MHZ	0.19	1.17
- 680KA	68 $\pm$ 10%	2.52 MHZ	0.22	1.11
- 820KA	82 $\pm$ 10%	2.52 MHZ	0.25	1.00
- 101KA	100 $\pm$ 10%	1KHz	0.35	0.97
- 121KA	120 $\pm$ 10%	1KHz	0.40	0.89
- 151KA	150 $\pm$ 10%	1KHz	0.47	0.78
- 181KA	180 $\pm$ 10%	1KHz	0.63	0.72
- 221KA	220 $\pm$ 10%	1KHz	0.73	0.66
- 271KA	270 $\pm$ 10%	1KHz	0.97	0.57
- 331KA	330 $\pm$ 10%	1KHz	1.15	0.52
- 391KA	390 $\pm$ 10%	1KHz	1.30	0.48
- 471KA	470 $\pm$ 10%	1KHz	1.48	0.42
- 561KA	560 $\pm$ 10%	1KHz	1.90	0.33
- 681KA	680 $\pm$ 10%	1KHz	2.25	0.28
- 821KA	820 $\pm$ 10%	1KHz	2.55	0.24

Specification: < P34B Series 1006 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34B1006 - 100MA	10 $\pm$ 20%	2.52 MHz	0.06	4.70
- 120MA	12 $\pm$ 20%	2.52 MHz	0.07	4.30
- 150MA	15 $\pm$ 20%	2.52 MHz	0.08	3.80
- 180MA	18 $\pm$ 20%	2.52 MHz	0.09	3.50
- 220MA	22 $\pm$ 20%	2.52 MHz	0.10	3.20
- 270MA	27 $\pm$ 20%	2.52 MHz	0.12	2.80
- 330MA	33 $\pm$ 20%	2.52 MHz	0.13	2.60
- 390MA	39 $\pm$ 20%	2.52 MHz	0.14	2.40
- 470KA	47 $\pm$ 10%	2.52 MHz	0.18	2.20
- 560KA	56 $\pm$ 10%	2.52 MHz	0.20	2.00
- 680KA	68 $\pm$ 10%	2.52 MHz	0.22	1.80
- 820KA	82 $\pm$ 10%	2.52 MHz	0.30	1.65
- 101KA	100 $\pm$ 10%	1KHz	0.33	1.50
- 121KA	120 $\pm$ 10%	1KHz	0.37	1.35
- 151KA	150 $\pm$ 10%	1KHz	0.50	1.20
- 181KA	180 $\pm$ 10%	1KHz	0.55	1.10
- 221KA	220 $\pm$ 10%	1KHz	0.60	1.00
- 271KA	270 $\pm$ 10%	1KHz	0.87	0.90
- 331KA	330 $\pm$ 10%	1KHz	0.97	0.80
- 391KA	390 $\pm$ 10%	1KHz	1.30	0.75
- 471KA	470 $\pm$ 10%	1KHz	1.45	0.68
- 561KA	560 $\pm$ 10%	1KHz	2.00	0.63
- 681KA	680 $\pm$ 10%	1KHz	2.20	0.57
- 821KA	820 $\pm$ 10%	1KHz	3.00	0.52
- 102KA	1000 $\pm$ 10%	1KHz	3.30	0.47
- 122KA	1200 $\pm$ 10%	1KHz	4.50	0.43
- 152KA	1500 $\pm$ 10%	1KHz	5.00	0.38

Specification: < P34B Series 1008 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34B1008- 100MA	10 $\pm$ 20%	2.52 MHz	0.055	5.60
- 120MA	12 $\pm$ 20%	2.52 MHz	0.060	5.10
- 150MA	15 $\pm$ 20%	2.52 MHz	0.065	4.60
- 180MA	18 $\pm$ 20%	2.52 MHz	0.07	4.20
- 220MA	22 $\pm$ 20%	2.52 MHz	0.08	3.80
- 270MA	27 $\pm$ 20%	2.52 MHz	0.09	3.40
- 330MA	33 $\pm$ 20%	2.52 MHz	0.10	3.10
- 390MA	39 $\pm$ 20%	2.52 MHz	0.13	2.85
- 470KA	47 $\pm$ 10%	2.52 MHz	0.14	2.60
- 560KA	56 $\pm$ 10%	2.52 MHz	0.16	2.35
- 680KA	68 $\pm$ 10%	2.52 MHz	0.18	2.15
- 820KA	82 $\pm$ 10%	2.52 MHz	0.23	2.00
- 101KA	100 $\pm$ 10%	1KHz	0.26	1.80
- 121KA	120 $\pm$ 10%	1KHz	0.30	1.60
- 151KA	150 $\pm$ 10%	1KHz	0.40	1.45
- 181KA	180 $\pm$ 10%	1KHz	0.44	1.30
- 221KA	220 $\pm$ 10%	1KHz	0.48	1.20
- 271KA	270 $\pm$ 10%	1KHz	0.65	1.10
- 331KA	330 $\pm$ 10%	1KHz	0.73	1.00
- 391KA	390 $\pm$ 10%	1KHz	1.00	0.90
- 471KA	470 $\pm$ 10%	1KHz	1.14	0.80
- 561KA	560 $\pm$ 10%	1KHz	1.24	0.75
- 681KA	680 $\pm$ 10%	1KHz	1.68	0.65
- 821KA	820 $\pm$ 10%	1KHz	1.85	0.60
- 102KA	1000 $\pm$ 10%	1KHz	2.55	0.55
- 152KA	1500 $\pm$ 10%	1KHz	3.13	0.45
- 222KA	2200 $\pm$ 10%	1KHz	3.80	0.38
- 332KA	3300 $\pm$ 10%	1KHz	5.70	0.30
- 472KA	4700 $\pm$ 10%	1KHz	6.77	0.25

SMD POWER INDUCTOR P34D SERIES

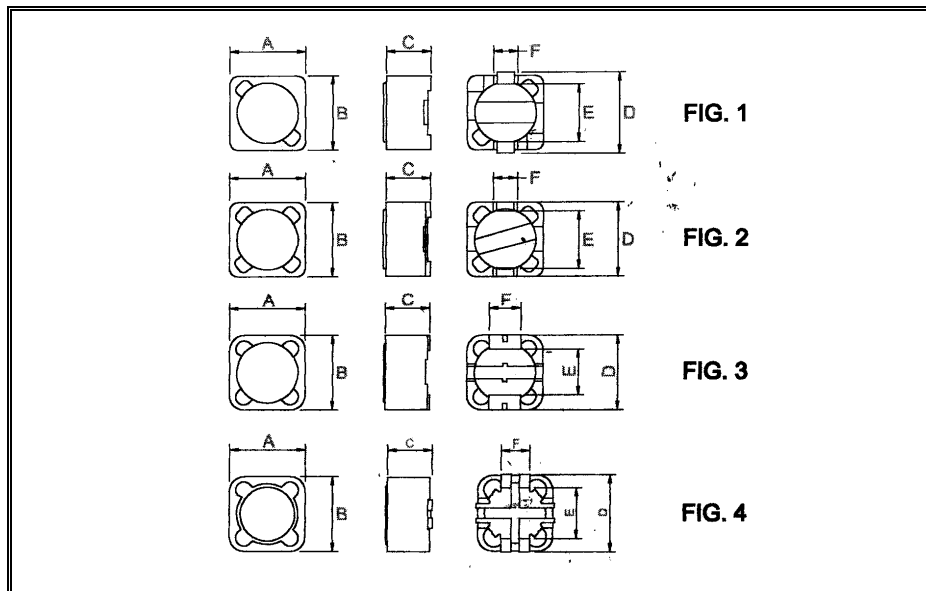
Application:

- ♦ Power sources circuit of VCR camera
- ♦ LCD televisions
- ♦ Notebook Computer
- ♦ DC/AC & DC/DC converters usage

Features:

- ♦ Excellent solder ability and high heat resistance for reflow soldering.
- ♦ For large current circuits due to low DC resistance.
- ♦ Excellent terminal strength due to high performances ferrite core material and solder ability
- ♦ Provided with embossed carrier tape packaging for automatic mounting machines.
- ♦ With magnetic shield against radiation

Configuration:

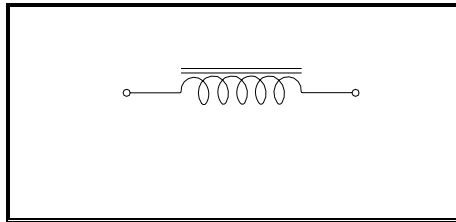


Dimensions:

UNIT : mm

TYPE	A	B	C	D	E	F	Fig.	IND.RANGE
P34D 0602	6.2±0.3	5.9±0.3	3.0MAX	6.6±0.3	4.6REF	1.5REF	1	2.9uH~330μH
P34D 0604	6.2±0.3	5.9±0.3	5.0MAX	6.6±0.3	4.6REF	1.5REF	1	10μH~1KμH
P34D 0703	7.3±0.2	7.3±0.2	3.5MAX	7.2±0.3	5.4REF	1.8REF	2	10μH~1KμH
P34D 0704	7.3±0.2	7.3±0.2	4.5MAX	7.2±0.3	5.4REF	1.8REF	2	10μH~1KμH
P34D 1204	12.0±0.3	12.0±0.3	4.5MAX	11.8±0.3	7.6REF	5.0REF	3	3.9μH~330μH
P34D 1205	12.0±0.3	12.0±0.3	6.0MAX	11.8±0.3	7.6REF	5.0REF	3	1.3μH~1KμH
P34D 1205B	12.0±0.3	12.0±0.3	6.0MAX	11.8±0.3	7.6REF	5.0REF	4	
P34D 1207	12.0±0.3	12.0±0.3	8.0MAX	12.0±0.3	7.6REF	5.0REF	3	1.2μH~1KμH
P34D 1207B	12.0±0.3	12.0±0.3	8.0MAX	12.0±0.3	7.6REF	5.0REF	4	

Schematics:



Specification: < P34D 0602 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34D0602 - 2R9MA	2.9 ±20%	7.96 MHZ	0.068	1.94
- 4R0MA	4.0 ±20%	7.96 MHZ	0.080	1.63
- 5R5MA	5.5 ±20%	7.96 MHZ	0.096	1.40
- 100MA	10 ±20%	1KHz	0.15	1.10
- 120MA	12 ±20%	1KHz	0.20	1.00
- 150MA	15 ±20%	1KHz	0.23	0.90
- 180MA	18 ±20%	1KHz	0.27	0.80
- 220MA	22 ±20%	1KHz	0.34	0.74
- 270MA	27 ±20%	1KHz	0.38	0.66
- 330MA	33 ±20%	1KHz	0.45	0.59
- 390MA	39 ±20%	1KHz	0.49	0.54
- 470MA	47 ±20%	1KHz	0.69	0.50
- 560MA	56 ±20%	1KHz	0.78	0.46
- 680MA	68 ±20%	1KHz	1.07	0.42
- 820MA	82 ±20%	1KHz	1.21	0.38
-101MA	100 ±20%	1KHz	1.39	0.34
-121MA	120 ±20%	1KHz	1.90	0.31
- 151MA	150 ±20%	1KHz	2.18	0.28
- 181MA	180 ±20%	1KHz	2.77	0.26
- 221MA	220 ±20%	1KHz	3.12	0.23
- 271MA	270 ±20%	1KHz	4.38	0.22
- 331MA	330 ±20%	1KHz	4.94	0.19

Specification: < P34D 0604 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34D0604 - 100MA	10 ±20%	1 KHZ	0.12	1.35
- 120MA	12 ±20%	1 KHZ	0.13	1.22
- 150MA	15 ±20%	1 KHZ	0.18	1.11
- 180MA	18 ±20%	1 KHZ	0.24	1.02
- 220MA	22 ±20%	1 KHZ	0.27	0.91
- 270MA	27 ±20%	1 KHZ	0.30	0.82
- 330MA	33 ±20%	1 KHZ	0.33	0.74
- 390MA	39 ±20%	1 KHZ	0.37	0.69
- 470MA	47 ±20%	1 KHZ	0.52	0.62
- 560MA	56 ±20%	1 KHZ	0.56	0.58
- 680MA	68 ±20%	1 KHZ	0.63	0.51
- 820MA	82 ±20%	1 KHZ	0.71	0.46
- 101MA	100 ±20%	1 KHZ	1.03	0.42
- 121MA	120 ±20%	1 KHZ	1.15	0.38
- 151MA	150 ±20%	1 KHZ	1.68	0.35
- 181MA	180 ±20%	1 KHZ	1.87	0.32
- 221MA	220 ±20%	1 KHZ	2.08	0.29
- 271MA	270 ±20%	1 KHZ	2.37	0.26
- 331MA	330 ±20%	1 KHZ	2.67	0.23
- 391MA	390 ±20%	1 KHZ	2.94	0.22
- 471MA	470 ±20%	1 KHZ	3.93	0.20
- 561MA	560 ±20%	1 KHZ	5.43	0.18
- 681MA	680 ±20%	1 KHZ	7.32	0.17
- 821MA	820 ±20%	1 KHZ	8.24	0.15
- 102MA	1000 ±20%	1 KHZ	9.26	0.14

Specification: < P34D 0703 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34D0703 - 100MA	10 ±20%	1KHz	0.07	1.68
- 120MA	12 ±20%	1KHz	0.10	1.52
- 150MA	15 ±20%	1KHz	0.13	1.33
- 180MA	18 ±20%	1KHz	0.14	1.20
- 220MA	22 ±20%	1KHz	0.19	1.07
- 270MA	27 ±20%	1KHz	0.21	0.96
- 330MA	33 ±20%	1KHz	0.24	0.91
- 390MA	39 ±20%	1KHz	0.32	0.77
- 470MA	47 ±20%	1KHz	0.36	0.76
- 560MA	56 ±20%	1KHz	0.47	0.68
- 680MA	68 ±20%	1KHz	0.52	0.61
- 820MA	82 ±20%	1KHz	0.69	0.57
-101MA	100 ±20%	1KHz	0.79	0.50
-121MA	120 ±20%	1KHz	0.89	0.49
- 151MA	150 ±20%	1KHz	1.27	0.43
- 181MA	180 ±20%	1KHz	1.45	0.39
- 221MA	220 ±20%	1KHz	1.65	0.35
- 271MA	270 ±20%	1KHz	2.31	0.32
- 331MA	330 ±20%	1KHz	2.62	0.28
- 391MA	390 ±20%	1KHz	2.94	0.26
- 471MA	470 ±20%	1KHz	4.18	0.24
- 561MA	560 ±20%	1KHz	4.67	0.22
- 681MA	680 ±20%	1KHz	5.73	0.19
- 821MA	820 ±20%	1KHz	6.54	0.18
- 102MA	1000 ±20%	1KHz	9.44	0.16

Specification: < P34D 0704 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34D0704 - 100MA	10 $\pm 20\%$	1KHz	0.05	1.84
- 120MA	12 $\pm 20\%$	1KHz	0.06	1.71
- 150MA	15 $\pm 20\%$	1KHz	0.08	1.47
- 180MA	18 $\pm 20\%$	1KHz	0.10	1.31
- 220MA	22 $\pm 20\%$	1KHz	0.11	1.23
- 270MA	27 $\pm 20\%$	1KHz	0.15	1.12
- 330MA	33 $\pm 20\%$	1KHz	0.17	0.96
- 390MA	39 $\pm 20\%$	1KHz	0.23	0.91
- 470MA	47 $\pm 20\%$	1KHz	0.26	0.88
- 560MA	56 $\pm 20\%$	1KHz	0.35	0.75
- 680MA	68 $\pm 20\%$	1KHz	0.38	0.69
- 820MA	82 $\pm 20\%$	1KHz	0.43	0.61
- 101MA	100 $\pm 20\%$	1KHz	0.61	0.60
- 121MA	120 $\pm 20\%$	1KHz	0.66	0.52
- 151MA	150 $\pm 20\%$	1KHz	0.88	0.46
- 181MA	180 $\pm 20\%$	1KHz	0.98	0.42
- 221MA	220 $\pm 20\%$	1KHz	1.17	0.36
- 271MA	270 $\pm 20\%$	1KHz	1.64	0.34
- 331MA	330 $\pm 20\%$	1KHz	1.86	0.32
- 391MA	390 $\pm 20\%$	1KHz	2.85	0.29
- 471MA	470 $\pm 20\%$	1KHz	3.01	0.26
- 561MA	560 $\pm 20\%$	1KHz	3.62	0.23
- 681MA	680 $\pm 20\%$	1KHz	4.63	0.22
- 821MA	820 $\pm 20\%$	1KHz	5.20	0.20
- 102MA	1000 $\pm 20\%$	1KHz	6.00	0.18

Specification: < P34D 1204 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34D1204 - 3R9MA	3.9 $\pm 20\%$	100 KHZ	0.015	6.5
- 4R7MA	4.7 $\pm 20\%$	100 KHZ	0.018	5.7
- 6R8MA	6.8 $\pm 20\%$	100 KHZ	0.023	4.9
- 100MA	10 $\pm 20\%$	100 KHZ	0.028	4.5
- 120MA	12 $\pm 20\%$	100 KHZ	0.038	4.0
- 150MA	15 $\pm 20\%$	100 KHZ	0.050	3.2
- 180MA	18 $\pm 20\%$	100 KHZ	0.057	3.1
- 220MA	22 $\pm 20\%$	100 KHZ	0.066	2.9
- 270MA	27 $\pm 20\%$	100 KHZ	0.080	2.8
- 330MA	33 $\pm 20\%$	100 KHZ	0.097	2.7
- 390MA	39 $\pm 20\%$	100 KHZ	0.132	2.1
- 470MA	47 $\pm 20\%$	100 KHZ	0.150	1.9
- 560MA	56 $\pm 20\%$	100 KHZ	0.190	1.8
- 680MA	68 $\pm 20\%$	100 KHZ	0.220	1.5
- 820MA	82 $\pm 20\%$	100 KHZ	0.260	1.3
- 101MA	100 $\pm 20\%$	100 KHZ	0.308	1.2
- 121MA	120 $\pm 20\%$	100 KHZ	0.380	1.1
- 151MA	150 $\pm 20\%$	100 KHZ	0.530	0.95
- 181MA	180 $\pm 20\%$	100 KHZ	0.620	0.85
- 221MA	220 $\pm 20\%$	100 KHZ	0.700	0.80
- 271MA	270 $\pm 20\%$	100 KHZ	0.876	0.60
- 331MA	330 $\pm 20\%$	100 KHZ	0.990	0.50

Specification: < P34D 1205 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34D1205 - 1R3NA	1.3 + 30%/ -20%	7.96 MHz	0.012	8.00
- 2R1NA	2.1+ 30%/ -20%	7.96 MHz	0.014	7.00
- 3R1NA	3.1+ 30%/ -20%	7.96 MHz	0.017	6.00
- 4R4NA	4.4 + 30%/ -20%	7.96 MHz	0.020	5.00
- 5R8NA	5.8 + 30%/ -20%	7.96 MHz	0.021	4.40
- 7R5NA	7.5+ 30%/ -20%	7.96 MHz	0.024	4.20
- 100MA	10 ±20%	1KHz	0.025	4.00
- 120MA	12 ±20%	1KHz	0.027	3.50
- 150MA	15 ±20%	1KHz	0.030	3.30
- 180MA	18 ±20%	1KHz	0.034	3.00
- 220MA	22 ±20%	1KHz	0.036	2.80
- 270MA	27 ±20%	1KHz	0.051	2.30
- 330MA	33 ±20%	1KHz	0.057	2.10
- 390MA	39 ±20%	1KHz	0.068	2.00
- 470MA	47 ±20%	1KHz	0.075	1.80
- 560MA	56 ±20%	1KHz	0.110	1.70
- 680MA	68 ±20%	1KHz	0.120	1.50
- 820MA	82 ±20%	1KHz	0.140	1.40
-101MA	100 ±20%	1KHz	0.160	1.30
-121MA	120 ±20%	1KHz	0.170	1.10
- 151MA	150 ±20%	1KHz	0.230	1.00
- 181MA	180 ±20%	1KHz	0.290	0.90
- 221MA	220 ±20%	1KHz	0.400	0.80
- 271MA	270 ±20%	1KHz	0.460	0.75
- 331MA	330 ±20%	1KHz	0.510	0.68
- 391MA	390 ±20%	1KHz	0.690	0.65
- 471MA	470 ±20%	1KHz	0.770	0.58
- 561MA	560 ±20%	1KHz	0.860	0.54
- 681MA	680 ±20%	1KHz	1.200	0.48
- 821MA	820 ±20%	1KHz	1.340	0.43
- 102MA	1000 ±20%	1KHz	1.530	0.40

Specification: < P34D 1205B SERIES >

AFTEK PART NO	INDUCTANCE (μ H)		TEST FREQ.	TURNS RATIO	DCR ($m\Omega$) MAX		L1 Rated Current (A) MAX
	L1	L2			R1	R2	
P34D1205B-5R6-122	5.6 $\pm$ 30%	26.5 $\pm$ 30%	1 KHz	1 : 2.2	20	220	5.3
-6R8-122	6.8 $\pm$ 30%	32 $\pm$ 30%	1 KHz	1 : 2.2	21	250	5.0
-8R2-120	8.2 $\pm$ 30%	32 $\pm$ 30%	1 KHz	1 : 2.0	22	260	4.7
-8R2-122	8.2 $\pm$ 30%	35 $\pm$ 30%	1 KHz	1 : 2.2	22	270	4.7
-100-114	10 $\pm$ 30%	21 $\pm$ 30%	1 KHz	1 : 1.4	27	182	4.3
-100-116	10 $\pm$ 30%	25 $\pm$ 30%	1 KHz	1 : 1.6	27	220	4.3
-100-122	10 $\pm$ 30%	45 $\pm$ 30%	1 KHz	1 : 2.2	27	300	4.3
-120-120	12 $\pm$ 30%	45 $\pm$ 30%	1 KHz	1 : 2.0	30	300	4.0

Specification: < P34D 1207 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34D1207-1R2NA	1.2 + 40%/ -20%	100 KHZ	0.007	9.80
- 2R4NA	2.4 + 40%/ -20%	100 KHZ	0.012	8.00
- 3R5NA	3.5 + 40%/ -20%	100 KHZ	0.014	7.50
- 4R7NA	4.7 + 40%/ -20%	100 KHZ	0.016	6.80
- 6R1NA	6.1 + 40%/ -20%	100 KHZ	0.018	6.60
- 7R6NA	7.6 + 40%/ -20%	100 KHZ	0.020	5.90
- 100MA	10 ±20%	1KHz	0.022	5.40
- 120MA	12 ±20%	1KHz	0.024	4.90
- 150MA	15 ±20%	1KHz	0.027	4.50
- 180MA	18 ±20%	1KHz	0.039	3.90
- 220MA	22 ±20%	1KHz	0.043	3.60
- 270MA	27 ±20%	1KHz	0.046	3.40
- 330MA	33 ±20%	1KHz	0.065	3.00
- 390MA	39 ±20%	1KHz	0.073	2.75
- 470MA	47 ±20%	1KHz	0.10	2.50
- 560MA	56 ±20%	1KHz	0.11	2.35
- 680MA	68 ±20%	1KHz	0.14	2.10
- 820MA	82 ±20%	1KHz	0.16	1.95
-101MA	100 ±20%	1KHz	0.22	1.70
-121MA	120 ±20%	1KHz	0.25	1.60
- 151MA	150 ±20%	1KHz	0.28	1.42
- 181MA	180 ±20%	1KHz	0.35	1.30
- 221MA	220 ±20%	1KHz	0.39	1.16
- 271MA	270 ±20%	1KHz	0.58	1.06
- 331MA	330 ±20%	1KHz	0.64	0.95
- 391MA	390 ±20%	1KHz	0.70	0.88
- 471MA	470 ±20%	1KHz	0.98	0.79
- 561MA	560 ±20%	1KHz	1.07	0.73
- 681MA	680 ±20%	1KHz	1.46	0.67
- 821MA	820 ±20%	1KHz	1.64	0.60
- 102MA	1000 ±20%	1KHz	1.82	0.55

Specification: < P34D 1207B SERIES >

AFTEK PART NO	INDUCTANCE (μ H)		TEST FREQ.	TURNS RATIO	DCR ($m\Omega$) MAX		L1 Rated Current (A) MAX
	L1	L2			R1	R2	
P34D1207B-7R6-122	7.6 $\pm$ 30%	38 $\pm$ 30%	1 KHz	1 : 2.2	22	300	7.0
-100-122	10 $\pm$ 30%	45 $\pm$ 30%	1 KHz	1 : 2.2	30	200	4.5
-100-142	10 $\pm$ 30%	178 $\pm$ 30%	1 KHz	1 : 4.2	30	660	4.5

SMD POWER INDUCTOR P34C SERIES

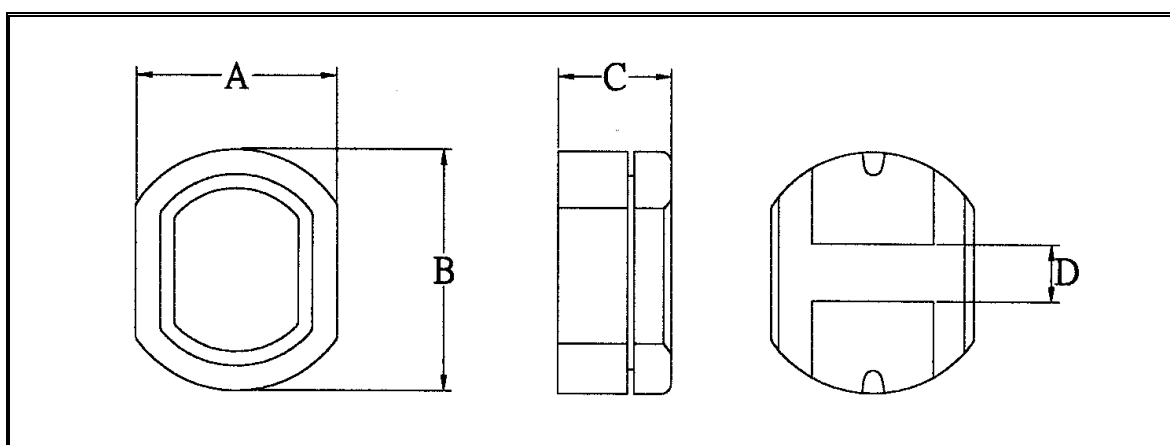
Application:

- ♦ Power supply for VTRS
- ♦ OA equipment
- ♦ LCD televisions
- ♦ Notebook PCs
- ♦ Portable communication equipment
- ♦ DC/DC converters, etc.

Features:

- ♦ Excellent solder-ability and high heat resistance for reflow soldering.
- ♦ For large current circuits due to low DC resistance.
- ♦ Excellent in terminal strength due to its high performance ferrite core material and solder ability.
- ♦ Provided with embossed carrier tape packaging for automatic mounting machines.

Configuration:

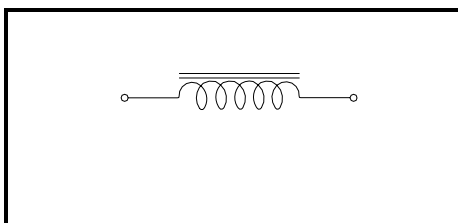


Dimensions:

UNIT: mm

SERIES	A	B	C	D	IND. RANGE
P34C63B	5.6±0.30	6.2±0.30	3.2±0.30	1.7REF	10μH ~ 68μH
P34C74B	7.0±0.35	7.8±0.35	4.5±0.40	2.0REF	10μH ~ 270μH
P34C105B	9.0±0.40	10.0±0.40	5.0±0.50	2.5REF	10μH ~ 470μH

Schematics:



Specification: < P34C63B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34C63B - 100MA	10 ±20%	2.52 MHZ	0.14	1.00
- 120MA	12 ±20%	2.52 MHZ	0.16	0.94
- 150MA	15 ±20%	2.52 MHZ	0.18	0.86
- 180MA	18 ±20%	2.52 MHZ	0.25	0.78
- 220MA	22 ±20%	2.52 MHZ	0.32	0.76
- 270MA	27 ±20%	2.52 MHZ	0.36	0.64
- 330LA	33 ±15%	2.52 MHZ	0.41	0.61
- 390LA	39 ±15%	2.52 MHZ	0.47	0.53
- 470LA	47 ±15%	2.52 MHZ	0.51	0.50
- 560LA	56 ±15%	2.52 MHZ	0.72	0.46
- 680LA	68 ±15%	2.52 MHZ	0.82	0.42

Specification: < P34C74B SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34C74B - 100MA	10 $\pm$ 20%	2.52 MHZ	0.07	1.65
- 120MA	12 $\pm$ 20%	2.52 MHZ	0.07	1.57
- 150MA	15 $\pm$ 20%	2.52 MHZ	0.08	1.39
- 180MA	18 $\pm$ 20%	2.52 MHZ	0.10	1.29
- 220MA	22 $\pm$ 20%	2.52 MHZ	0.13	1.12
- 270MA	27 $\pm$ 20%	2.52 MHZ	0.16	1.06
- 330LA	33 $\pm$ 15%	2.52 MHZ	0.18	0.97
- 390LA	39 $\pm$ 15%	2.52 MHZ	0.18	0.91
- 470LA	47 $\pm$ 15%	2.52 MHZ	0.27	0.80
- 560LA	56 $\pm$ 15%	2.52 MHZ	0.29	0.76
- 680LA	68 $\pm$ 15%	2.52 MHZ	0.33	0.68
-820LA	82 $\pm$ 15%	2.52 MHZ	0.43	0.62
-101KA	100 $\pm$ 10%	1KHz	0.49	0.55
-121KA	120 $\pm$ 10%	1KHz	0.68	0.49
- 151KA	150 $\pm$ 10%	1KHz	0.94	0.44
- 181KA	180 $\pm$ 10%	1KHz	1.00	0.40
- 221KA	220 $\pm$ 10%	1KHz	1.18	0.36
- 271KA	270 $\pm$ 10%	1KHz	1.30	0.33

Specification: < P34C105B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34C105B - 100MA	10±20%	2.52 MHZ	0.06	2.06
- 120MA	12±20%	2.52 MHZ	0.07	1.94
- 150MA	15±20%	2.52 MHZ	0.07	1.72
- 180MA	18±20%	2.52 MHZ	0.08	1.58
- 220MA	22±20%	2.52 MHZ	0.08	1.42
- 270MA	27±20%	2.52 MHZ	0.10	1.32
- 330LA	33±15%	2.52 MHZ	0.11	1.16
- 390LA	39±15%	2.52 MHZ	0.12	1.10
- 470LA	47±15%	2.52 MHZ	0.14	1.00
- 560LA	56±15%	2.52 MHZ	0.19	0.93
- 680LA	68±15%	2.52 MHZ	0.21	0.85
- 820LA	82±15%	2.52 MHZ	0.28	0.79
- 101KA	100±10%	1KHz	0.34	0.72
- 121KA	120±10%	1KHz	0.37	0.63
- 151KA	150±10%	1KHz	0.51	0.55
- 181KA	180±10%	1KHz	0.57	0.50
- 221KA	220±10%	1KHz	0.78	0.47
- 271KA	270±10%	1KHz	0.87	0.41
- 331KA	330±10%	1KHz	1.20	0.37
- 391KA	390±10%	1KHz	1.34	0.35
- 471KA	470±10%	1KHz	1.50	0.33

SMD POWER INDUCTOR P34I1608 SERIES

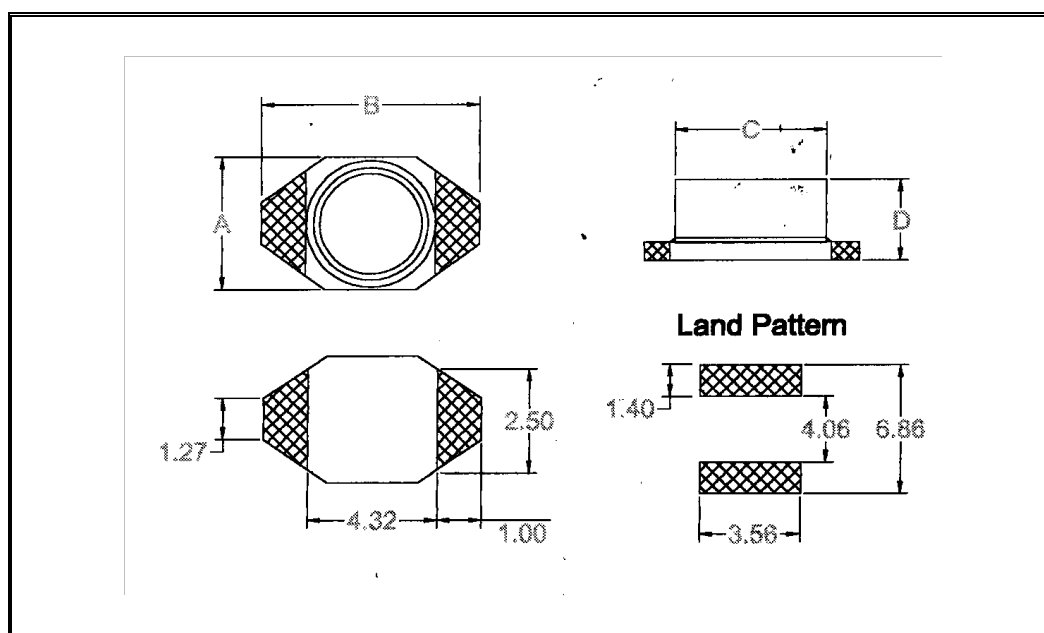
Application:

- ♦ High current requirements of portable computers.
- ♦ High current requirements of video recorders.
- ♦ Other DC-DC conversion applications.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that is standard in all AFTEK SMT power products.
- ♦ DCR is 10 to 60% lower than other inductors, with greatest improvements seen at values from 100 to 10,000uH.
- ♦ The terminals wrap around the end of the base, ensuring a sound solder fillet and simplifying inspection.

Configuration:

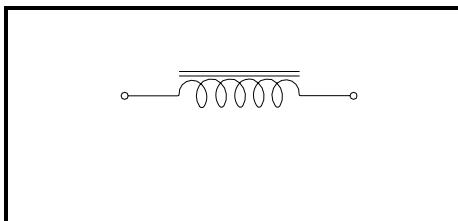


Dimensions:

UNIT: mm

A	B	C	D	IND. RANGE
4.45 MAX	6.60 MAX	4.06 ± 0.2	2.92 MAX	1.0uH ~ 10000uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (μ H)	SRF (MHz)	Q min	DCR (Ω) MAX	Rated Current (A) MAX
P34I1608 - 1R0MA	1.0 $\pm$ 20%	250	30 @ 200KHz	0.040	3.0
- 1R5MA	1.5 $\pm$ 20%	125	30 @ 200KHz	0.045	2.8
- 2R2MA	2.2 $\pm$ 20%	120	40 @ 200KHz	0.050	1.8
- 3R3MA	3.3 $\pm$ 20%	120	40 @ 200KHz	0.055	1.6
- 4R7MA	4.7 $\pm$ 20%	105	40 @ 200KHz	0.060	1.4
- 6R8MA	6.8 $\pm$ 20%	50	40 @ 200KHz	0.065	1.2
- 100MA	10 $\pm$ 20%	38	40 @ 200KHz	0.075	1.0
- 150MA	15 $\pm$ 20%	33	40 @ 100KHz	0.090	0.8
- 220MA	22 $\pm$ 20%	25	40 @ 100KHz	0.11	0.7
- 330MA	33 $\pm$ 20%	20	40 @ 100KHz	0.19	0.6
- 470MA	47 $\pm$ 20%	20	40 @ 100KHz	0.23	0.5
- 680MA	68 $\pm$ 20%	15	40 @ 100KHz	0.29	0.4
- 101MA	100 $\pm$ 20%	10	40 @ 100KHz	0.48	0.3
- 151MA	150 $\pm$ 20%	9	40 @ 100KHz	0.59	0.26
- 221MA	220 $\pm$ 20%	6	40 @ 100KHz	0.77	0.22
- 331MA	330 $\pm$ 20%	5	40 @ 100KHz	1.40	0.20
- 471MA	470 $\pm$ 20%	4	40 @ 100KHz	1.80	0.19
- 681MA	680 $\pm$ 20%	3	40 @ 100KHz	2.20	0.18
- 102MA	1000 $\pm$ 20%	2	40 @ 100KHz	3.40	0.15
- 152MA	1500 $\pm$ 20%	2	50 @ 100KHz	4.20	0.12
- 222MA	2200 $\pm$ 20%	2	50 @ 100KHz	8.50	0.10
- 332MA	3300 $\pm$ 20%	1	50 @ 100KHz	11.0	0.08
- 472MA	4700 $\pm$ 20%	1	50 @ 100KHz	13.9	0.06
- 682MA	6800 $\pm$ 20%	1	50 @ 100KHz	25.0	0.04
- 103MA	10000 $\pm$ 20%	0.8	50 @ 100KHz	32.8	0.02

1. Inductance tested at 100KHz, 0.1Vrms.
2. 30°C temperature rise.
3. Operating temperature -40°C to +85°C.
4. Electrical specifications at 25°C.

SMD POWER INDUCTOR P34G1608 SERIES

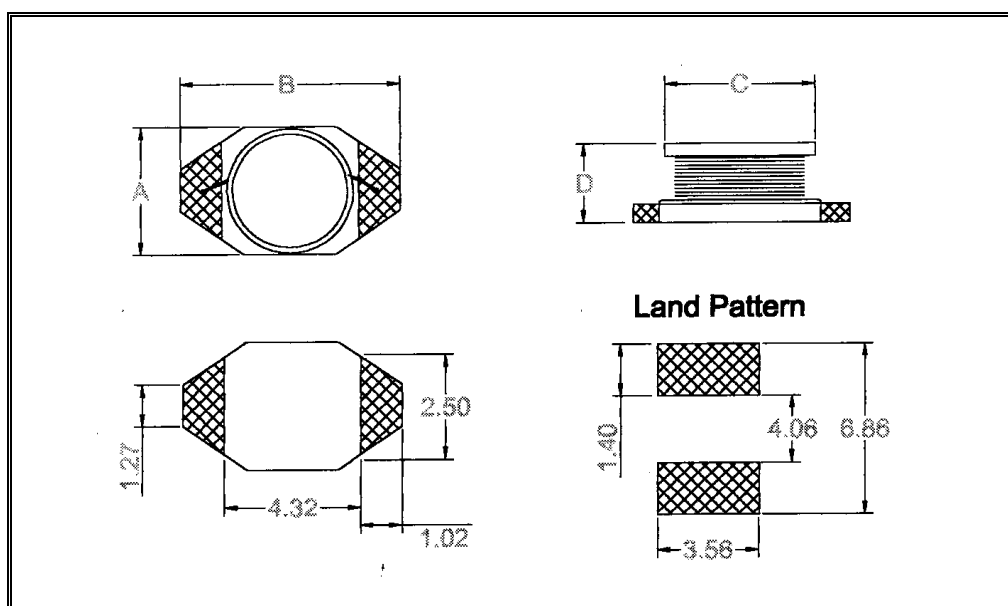
Application:

- ♦ High current requirements of portable computers.
- ♦ High current requirements of video recorders.
- ♦ Other DC-DC conversion applications.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that is standard in all AFTEK SMT power products.
- ♦ DCR is 10 to 60% lower than other inductors, with greatest improvements seen at values from 100 to 10,000uH.
- ♦ The terminals wrap around the end of the base, ensuring a sound solder fillet and simplifying inspection.

Configuration:

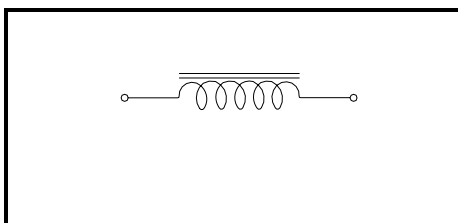


Dimensions:

UNIT: mm

A	B	C	D	IND. RANGE
4.45 MAX	6.60 MAX	2.92 MAX	3.94 ± 0.2	1.0uH ~ 10000uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (μ H)	SRF (MHZ)	DCR (Ω) MAX	Isat (A)	Irms (A)
P34G1608 -1R0MA	1.0 $\pm$ 20%	130	0.05	2.90	2.9
- 1R5MA	1.5 $\pm$ 20%	115	0.05	2.60	2.8
- 2R2MA	2.2 $\pm$ 20%	90	0.07	2.30	2.4
- 3R3MA	3.3 $\pm$ 20%	70	0.08	2.00	2.0
- 4R7MA	4.7 $\pm$ 20%	50	0.09	1.50	1.5
- 6R8MA	6.8 $\pm$ 20%	45	0.13	1.20	1.4
- 100MA	10 $\pm$ 20%	35	0.16	1.10	1.2
- 150MA	15 $\pm$ 20%	30	0.23	0.90	1.1
- 220MA	22 $\pm$ 20%	20	0.37	0.70	0.8
- 330MA	33 $\pm$ 20%	15	0.51	0.58	0.6
- 470MA	47 $\pm$ 20%	14	0.64	0.50	0.5
- 680MA	68 $\pm$ 20%	11	0.86	0.40	0.4
- 101MA	100 $\pm$ 20%	9	1.27	0.31	0.3
- 151MA	150 $\pm$ 20%	6	2.00	0.27	0.25
- 221MA	220 $\pm$ 20%	5.5	3.11	0.22	0.20
- 331MA	330 $\pm$ 20%	5	3.80	0.18	0.16
- 471MA	470 $\pm$ 20%	4	5.06	0.16	0.15
- 681MA	680 $\pm$ 20%	3	9.20	0.14	0.12
- 102MA	1000 $\pm$ 20%	2	13.8	0.10	0.07

1. Inductance tested at 100KHZ, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 15^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34GHC1813 SERIES

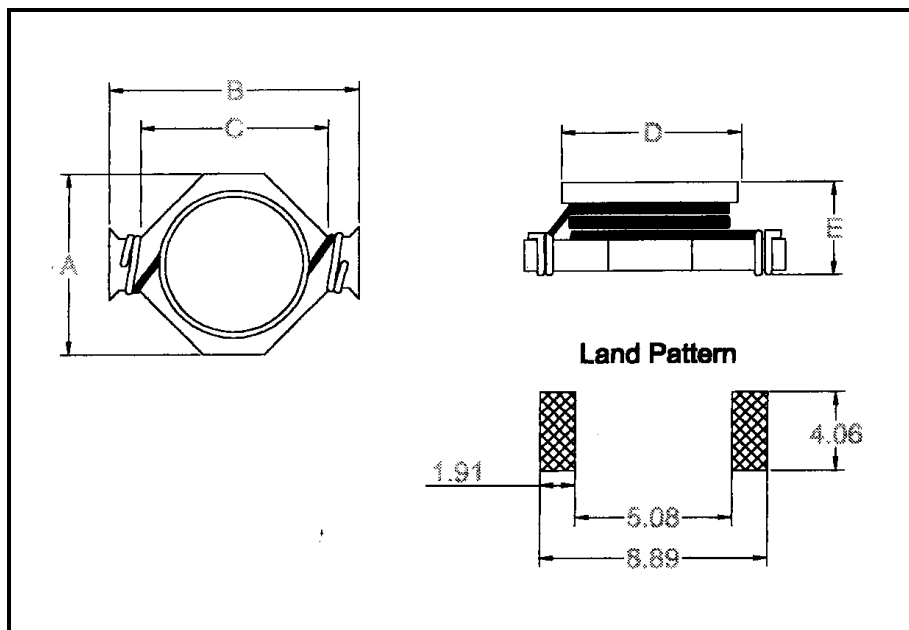
Application:

- ♦ Ideal inductor for DC-DC converter in notebook computer.
- ♦ Step-up or step-down converters.
- ♦ PDA.
- ♦ Flash memory programmer etc.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that are standards in all AFTEK SMT power products.
- ♦ Excellent solder-ability and achieves very low DCR values.

Configuration:

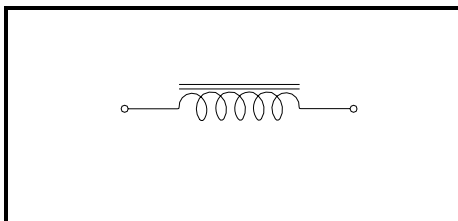


Dimensions:

UNIT : mm

A	B	C	D	E	IND. RANGE
6.10 MAX	8.89 MAX	5.84 TYP.	4.57 DIA.	5.0 MAX	0.56uH ~ 47uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANC E (μ H)	SRF (MHZ)	DCR (Ω) MAX	Isat (A)	Irms (A)
P34GHC1813- R56MA	0.56 $\pm$ 20%	200	0.01	7.7	6.0
- 1R2MA	1.2 $\pm$ 20%	140	0.02	5.3	4.4
- 2R2MA	2.2 $\pm$ 20%	100	0.04	3.5	3.1
- 4R7MA	4.7 $\pm$ 20%	50	0.05	2.6	2.2
- 100MA	10 $\pm$ 20%	40	0.11	1.9	1.5
- 150MA	15 $\pm$ 20%	30	0.17	1.5	1.2
- 220MA	22 $\pm$ 20%	25	0.25	1.2	1.0
- 330MA	33 $\pm$ 20%	20	0.35	0.99	0.82
- 470MA	47 $\pm$ 20%	15	0.47	0.87	0.72

1. Inductance tested at 100KHZ, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 40^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34G3308 SERIES

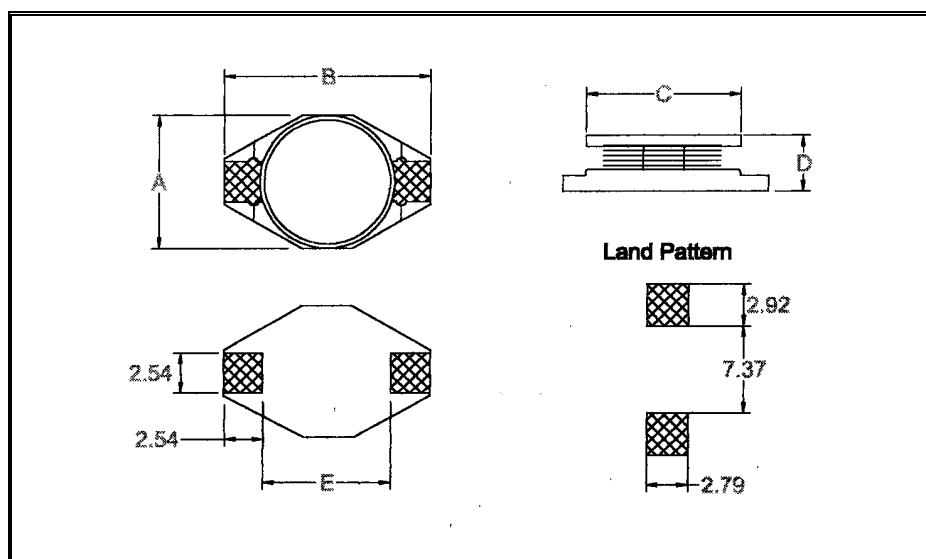
Application:

- ♦ Ideal inductor for DC-DC converter in notebook computer.
- ♦ PDA.
- ♦ Palmtop.
- ♦ Handheld applications.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that are standards in all AFTEK SMT power products.
- ♦ Small footprint excellent solder-ability and achieves very low DCR values.
- ♦ High efficiency.
- ♦ The terminals wrap around the end of the base, ensuring a sound solder fillet and simplifying inspection.

Configuration:

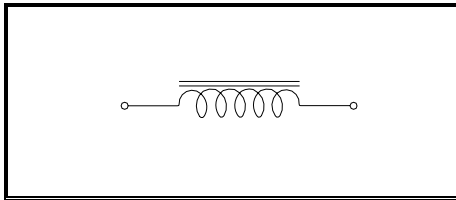


Dimensions:

UNIT : mm

A	B	C	D	E	IND. RANGE
9.40 MAX	12.95 MAX	8.38 DIA.	3.0 MAX	7.62	10uH ~ 1000uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (μ H)	SRF (MHZ)	DCR (Ω) MAX	Isat (A)	Irms (A)
P34G3308 - 100MA	10 $\pm$ 20%	35	0.11	2.4	2.0
- 150MA	15 $\pm$ 20%	33	0.15	2.0	1.5
- 220MA	22 $\pm$ 20%	25	0.23	1.6	1.3
- 330MA	33 $\pm$ 20%	19	0.30	1.4	1.1
- 470MA	47 $\pm$ 20%	14	0.39	1.0	0.8
- 680MA	68 $\pm$ 20%	12	0.66	0.9	0.7
- 101MA	100 $\pm$ 20%	10	0.84	0.7	0.6
- 151MA	150 $\pm$ 20%	8	1.20	0.6	0.5
- 221MA	220 $\pm$ 20%	6	1.90	0.5	0.4
- 331MA	330 $\pm$ 20%	5	2.70	0.4	0.3
- 471MA	470 $\pm$ 20%	4	4.00	0.3	0.2
- 681MA	680 $\pm$ 20%	3	5.30	0.2	0.1
- 102MA	1000 $\pm$ 20%	2.5	8.40	0.1	0.05

1. Inductance tested at 100KHZ, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 40^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34GHC3316 SERIES

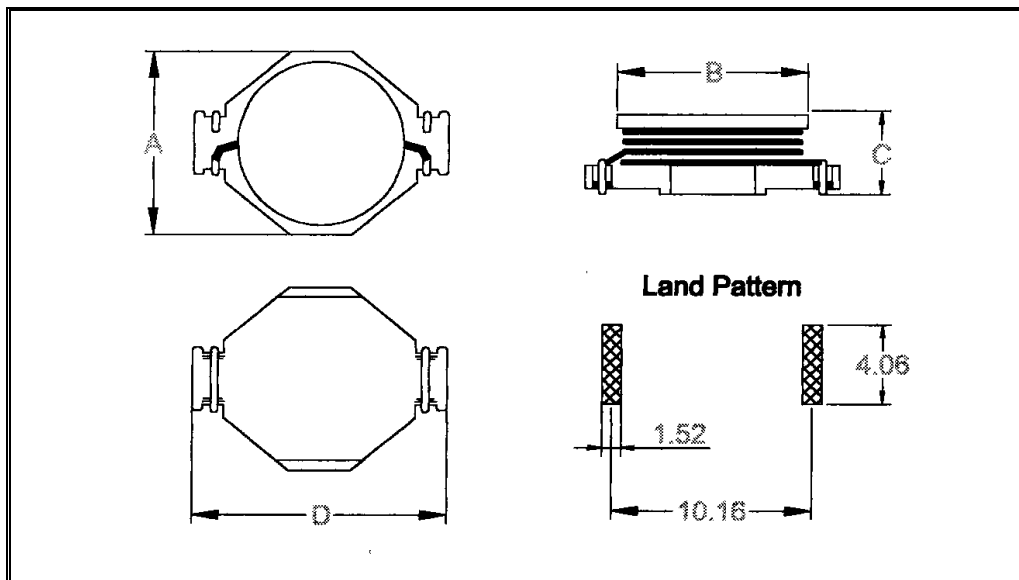
Application:

- ♦ For high current, low voltage DC-DC converter applications.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that are standards in all AFTEK SMT power products.
- ♦ Excellent solder-ability and achieves very low DCR values.

Configuration:

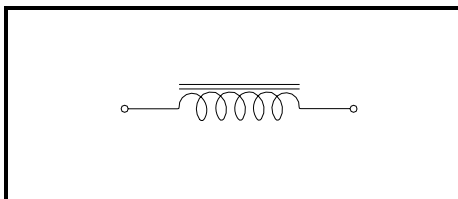


Dimensions:

UNIT : mm

A	B	C	D	IND. RANGE
9.91 MAX	8.38 MAX	6.35 MAX	13.21 MAX	0.33uH ~ 4.7uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (μ H)	SRF (MHZ)	DCR (Ω) MAX	Isat (A)	Irms (A)
P34GHC3316-R33MA	0.33 $\pm$ 20%	300	0.002	20.0	16.0
- R68MA	0.68 $\pm$ 20%	200	0.005	13.0	12.0
- 1R0MA	1.0 $\pm$ 20%	100	0.006	11.0	10.0
- 1R5MA	1.5 $\pm$ 20%	90	0.008	9.0	9.0
- 2R2MA	2.2 $\pm$ 20%	90	0.011	7.8	7.4
- 2R7MA	2.7 $\pm$ 20%	65	0.012	7.0	6.6
- 3R3MA	3.3 $\pm$ 20%	65	0.014	6.4	5.9
- 4R7MA	4.7 $\pm$ 20%	45	0.018	5.4	4.8

1. Inductance tested at 100KHZ, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 40^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34G3316 SERIES

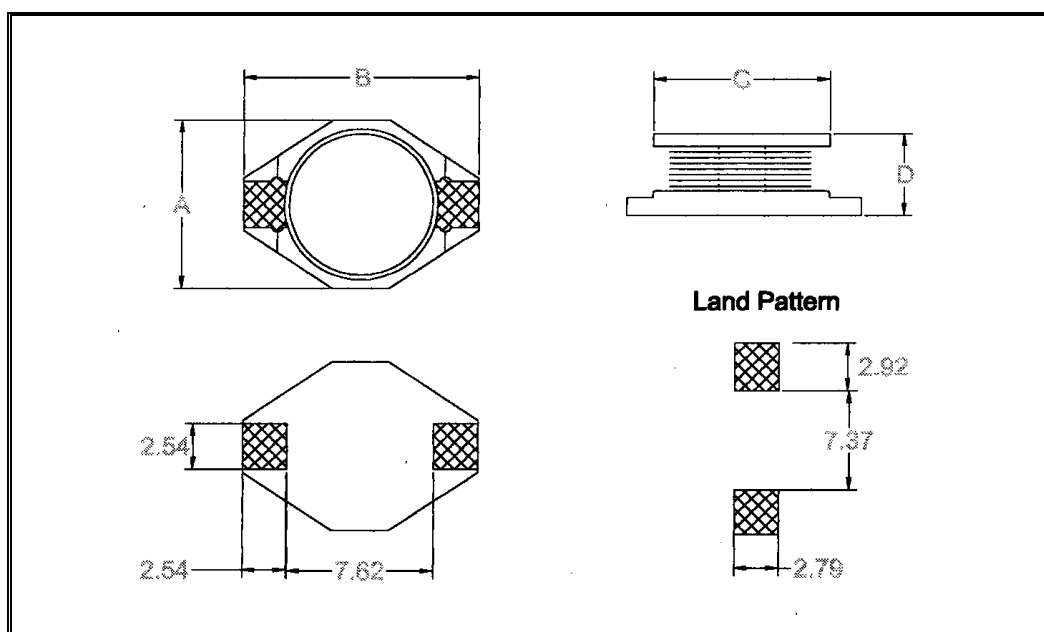
Application:

- ♦ Ideal inductor for DC-DC converter in notebook computer.
- ♦ Step-up or step-down converters.
- ♦ PDA.
- ♦ Flash memory programmer etc.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that are standards in all AFTEK SMT power products.
- ♦ Excellent solder-ability and achieves very low DCR values.

Configuration:

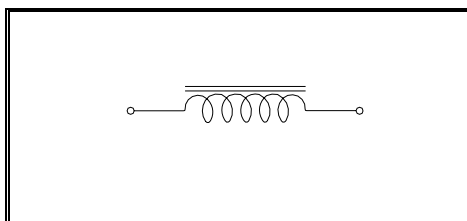


Dimensions:

UNIT : mm

A	B	C	D	IND. RANGE
9.40 MAX	12.95 MAX	8.38 DIA.	5.21 MAX	1.0uH ~ 1000uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (μ H)	SRF (MHZ)	DCR (Ω) MAX	Isat (A)	Irms (A)
P34G3316 - 1R0MA	1.0 $\pm$ 220%	100	0.009	9.0	6.8
- 1R5MA	1.5 $\pm$ 20%	90	0.010	8.0	6.4
- 2R2MA	2.2 $\pm$ 20%	80	0.012	7.0	6.1
- 3R3MA	3.3 $\pm$ 20%	65	0.015	6.4	5.4
- 4R7MA	4.7 $\pm$ 20%	45	0.018	5.4	4.8
- 6R8MA	6.8 $\pm$ 20%	38	0.027	4.6	4.4
- 100MA	10 $\pm$ 20%	30	0.038	3.8	3.9
- 150MA	15 $\pm$ 20%	27	0.046	3.0	3.1
- 220MA	22 $\pm$ 20%	19	0.085	2.6	2.7
- 330MA	33 $\pm$ 20%	15	0.10	2.0	2.1
- 470MA	47 $\pm$ 20%	12	0.14	1.6	1.8
- 680MA	68 $\pm$ 20%	10	0.20	1.4	1.5
- 101MA	100 $\pm$ 20%	9	0.28	1.2	1.3
- 151MA	150 $\pm$ 20%	6	0.40	1.0	1.0
- 221MA	220 $\pm$ 20%	5	0.61	0.8	0.8
- 331MA	330 $\pm$ 20%	4.5	1.02	0.6	0.6
- 471MA	470 $\pm$ 20%	3.5	1.27	0.5	0.5
- 681MA	680 $\pm$ 20%	2.5	2.02	0.4	0.4
- 102MA	1000 $\pm$ 20%	2.0	3.00	0.3	0.3

1. Inductance tested at 100KHZ, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 40^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34I3316 SERIES

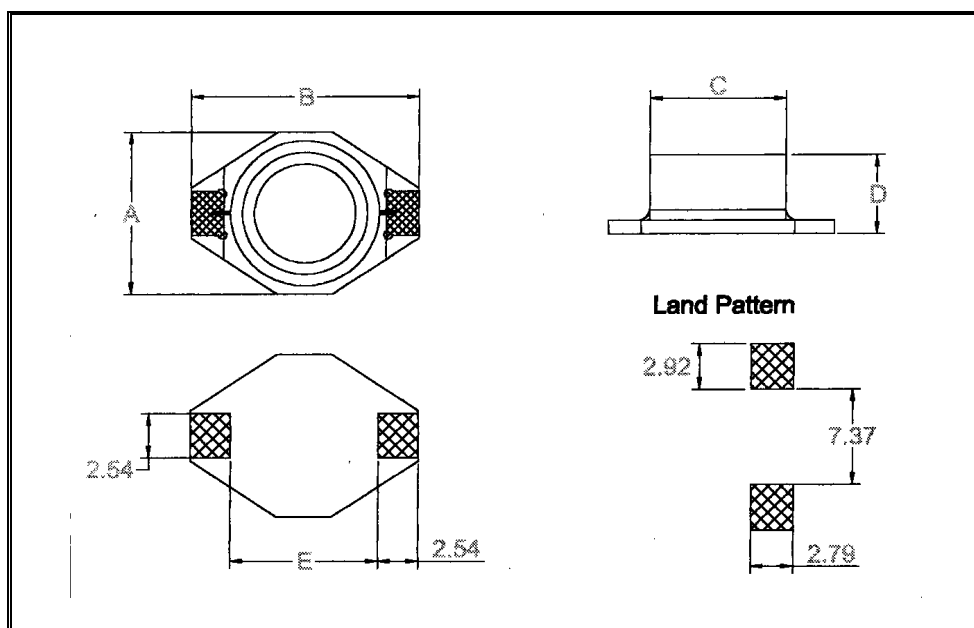
Application:

- ♦ For high performance DC-DC converter applications especially shielding required.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that are standards in all AFTEK SMT power products.
- ♦ Excellent solder-ability and achieves very low DCR values.
- ♦ A small footprint and magnetic shielding.
- ♦ High efficiency.
- ♦ The terminals wrap around the end of the base, ensuring a sound solder fillet and simplifying inspection.

Configuration:

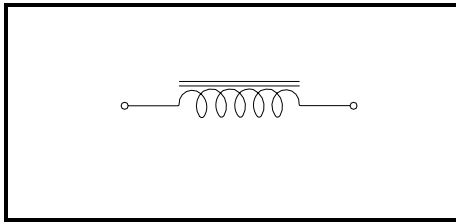


Dimensions:

UNIT : mm

A	B	C	D	E	IND. RANGE
9.40 MAX	12.95 MAX	8.38 DIA.	5.08 MAX	7.62	1.0uH ~ 47uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (μ H)	SRF (MHZ)	DCR (Ω) MAX	Isat (A)	Irms (A)
P34I3316 - 1R0MA	1.0 $\pm$ 20%	140	0.021	5.6	5.0
- 1R5MA	1.5 $\pm$ 20%	120	0.022	5.2	4.5
- 2R2MA	2.2 $\pm$ 20%	80	0.032	5.0	3.8
- 3R3MA	3.3 $\pm$ 20%	70	0.039	3.9	3.3
- 4R7MA	4.7 $\pm$ 20%	40	0.054	3.2	2.7
- 6R8MA	6.8 $\pm$ 20%	38	0.075	2.8	2.2
- 100MA	10 $\pm$ 20%	35	0.101	2.4	2.0
- 150MA	15 $\pm$ 20%	25	0.150	2.0	1.5
- 220MA	22 $\pm$ 20%	19	0.207	1.6	1.3
- 330MA	33 $\pm$ 20%	15	0.334	1.4	1.1
- 470MA	47 $\pm$ 20%	13	0.472	1.0	0.8

1. Inductance tested at 100KHZ, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 40^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34G3340 SERIES

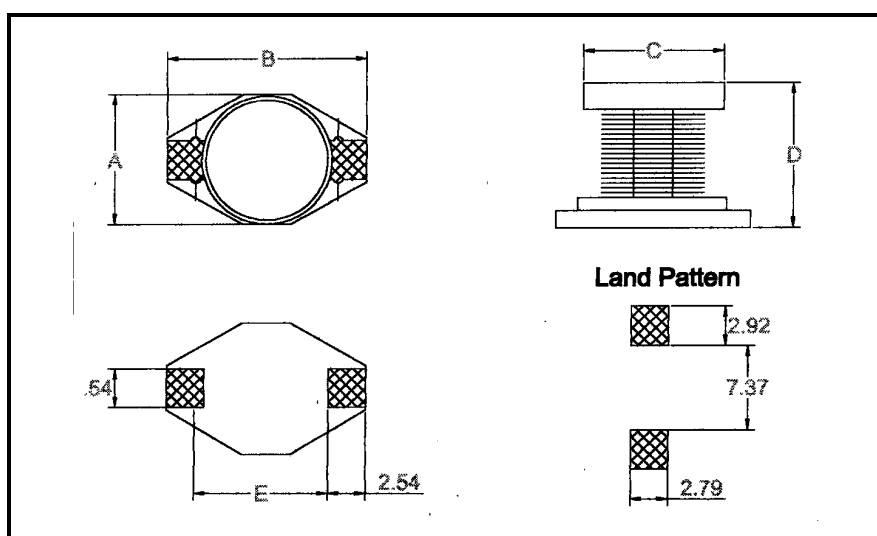
Application:

- ♦ For up to 3.5A Arms with an 8A_{dc} saturation current rating for a 10 μ H of low voltage DC-DC converter applications.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that is standard in all AFTEK SMT power products.
- ♦ Excellent solder-ability and achieves very low DCR values.

Configuration:

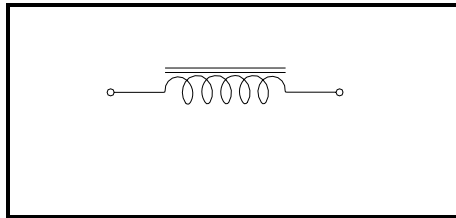


Dimensions:

UNIT : mm

A	B	C	D	E	IND. RANGE
9.40 MAX	13.00 MAX	8.38 DIA.	11.50 MAX	7.62	10uH ~ 1000uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (μ H)	SRF (MHZ)	DCR (Ω) MAX	Isat (A)	Irms (A)
P34G3340 - 100MA	10 $\pm$ 20%	22	0.04	8.0	3.5
- 150MA	15 $\pm$ 20%	18	0.05	7.0	3.0
- 220MA	22 $\pm$ 20%	11	0.07	5.5	2.5
- 330MA	33 $\pm$ 20%	9	0.08	4.0	2.0
- 470MA	47 $\pm$ 20%	8	0.12	3.8	1.6
- 680MA	68 $\pm$ 20%	7	0.17	3.0	1.2
- 101MA	100 $\pm$ 20%	5	0.22	2.5	1.2
- 151MA	150 $\pm$ 20%	4	0.34	2.0	0.9
- 221MA	220 $\pm$ 20%	3.5	0.44	1.6	0.7
- 331MA	330 $\pm$ 20%	2.5	0.70	1.2	0.6
- 471MA	470 $\pm$ 20%	2.0	0.95	1.0	0.3
- 681MA	680 $\pm$ 20%	2.0	1.20	1.0	0.2
- 102MA	1000 $\pm$ 20%	1.5	2.00	0.8	0.1

1. Inductance tested at 100KHz, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 40^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34GHC5022 SERIES

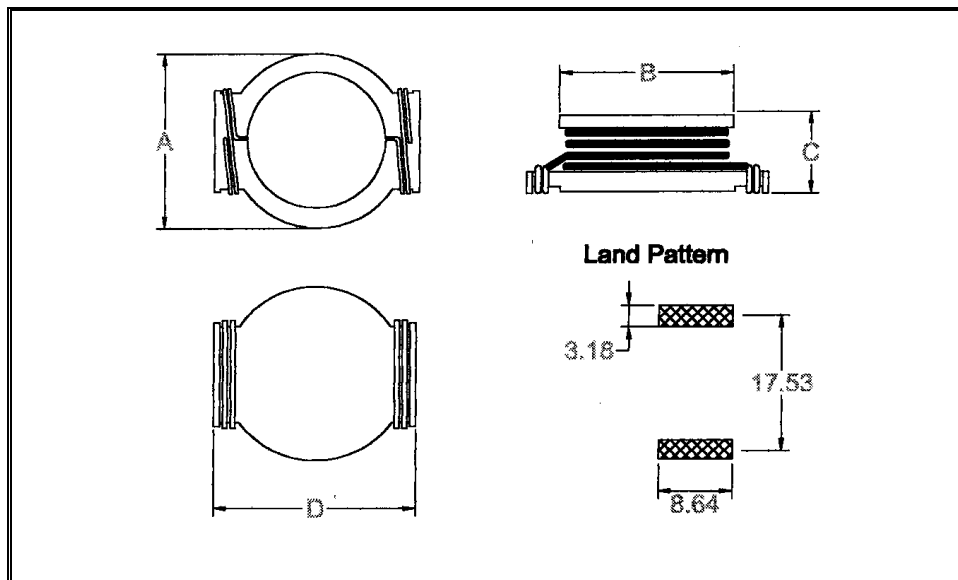
Application:

- ♦ For high current, low voltage DC-DC converter applications.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that are standards in all AFTEK SMT power products.
- ♦ Excellent solder-ability and achieves very low DCR values.

Configuration:

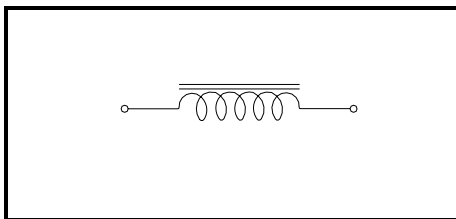


Dimensions:

UNIT : mm

A	B	C	D	IND. RANGE
16.26 MAX	12.7 MAX	8.00 MAX	22.35 MAX	0.78uH ~ 15uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANC E (μ H)	SRF (MHZ)	DCR (m Ω) MAX	Isat (A)	Irms (A)
P34GHC5022-0R78MA	0.78 $\pm$ 20%	156	2.6	30	15
- 1R5MA	1.5 $\pm$ 20%	100	4.0	25	15
- 2R2MA	2.2 $\pm$ 20%	75	6.1	20	12
- 3R3MA	3.3 $\pm$ 20%	60	8.6	17	10
- 3R9MA	3.9 $\pm$ 20%	55	10	15	9
- 4R7MA	4.7 $\pm$ 20%	40	14	13	8.4
- 6R0MA	6.0 $\pm$ 20%	35	17	12	7.5
- 7R8MA	7.8 $\pm$ 20%	35	18	11	7.5
- 100MA	10 $\pm$ 20%	28	26	10	6.0
- 150MA	15 $\pm$ 20%	20	32	8	4.4

1. Inductance tested at 100KHZ, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 40^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34G5022 SERIES

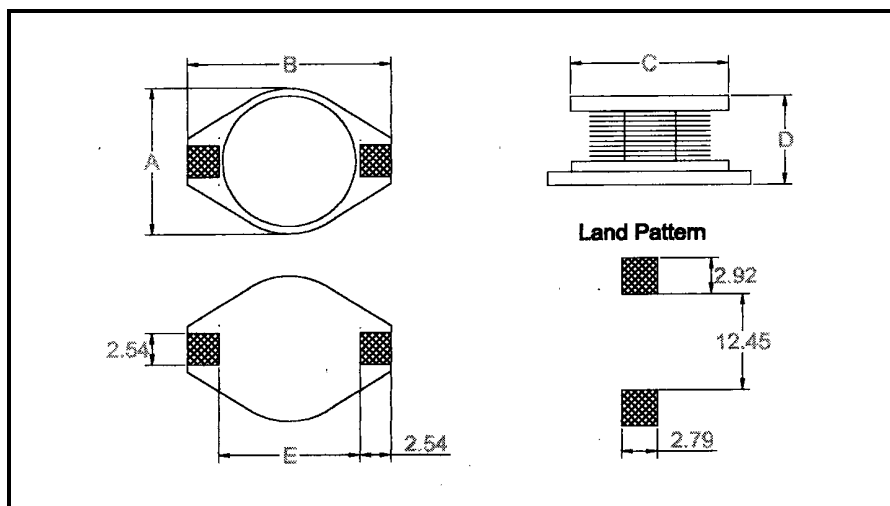
Application:

- ♦ High current requirements of the Pentium Pro.
- ♦ Portable and handheld devices.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that are standards in all AFTEK SMT power products.
- ♦ Excellent solder-ability and exceptionally very low DCR (as low as 0.009Ω) to keeps power losses to a minimum.

Configuration:

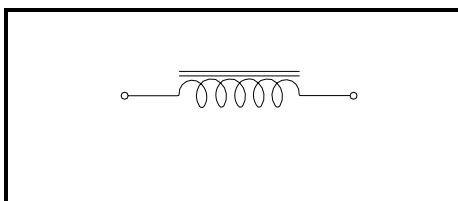


Dimensions:

UNIT : mm

A	B	C	D	E	IND. RANGE
15.24 MAX	18.54 MAX	12.7 DIA.	7.11 MAX	12.7	1.0uH ~ 1000uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (μ H)	SRF (MHZ)	DCR (Ω) MAX	Isat (A)	Irms (A)
P34G5022 - 1R0MA	1.0 $\pm$ 20%	80	0.009	20.0	8.6
- 2R2MA	2.2 $\pm$ 20%	80	0.014	16.0	7.1
- 3R3MA	3.3 $\pm$ 20%	60	0.018	14.0	6.2
- 5R6MA	5.6 $\pm$ 20%	40	0.020	12.0	5.3
- 100MA	10 $\pm$ 20%	30	0.031	10.0	4.3
- 150MA	15 $\pm$ 20%	22	0.036	8.0	4.0
- 220MA	22 $\pm$ 20%	20	0.047	7.0	3.5
- 330MA	33 $\pm$ 20%	15	0.066	5.5	3.0
- 470MA	47 $\pm$ 20%	9	0.086	4.5	2.6
- 680MA	68 $\pm$ 20%	8	0.13	3.5	2.3
- 101MA	100 $\pm$ 20%	7	0.19	3.0	1.8
- 151MA	150 $\pm$ 20%	6	0.25	2.6	1.5
- 221MA	220 $\pm$ 20%	5	0.38	2.4	1.2
- 331MA	330 $\pm$ 20%	4	0.56	1.9	1.0
- 471MA	470 $\pm$ 20%	3	0.85	1.4	0.82
- 681MA	680 $\pm$ 20%	2.5	1.1	1.2	0.72
- 102MA	1000 $\pm$ 20%	2.0	1.8	1.0	0.56

1. Inductance tested at 100KHZ, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 40^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34I5022 SERIES

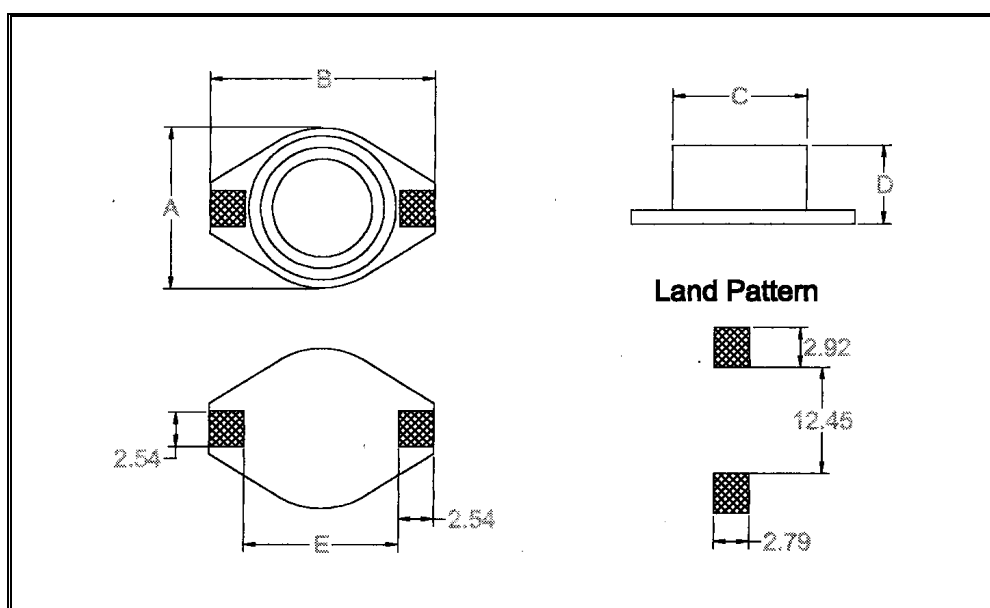
Application:

- ♦ High current requirements of portable computers.
- ♦ High current requirements of video recorders.
- ♦ Other DC-DC conversion applications.

Features:

- ♦ Provided with such as tape and reel packaging and a flat top for pick-and-place handling that is standard in all AFTEK SMT power products.
- ♦ Low DCR (as low as 0.009Ω) to keeps power losses to a minimum.
- ♦ The terminals wrap around the end of the base, ensuring a sound solder fillet and simplifying inspection.

Configuration:

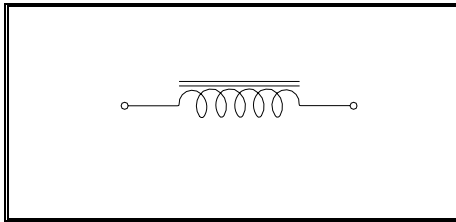


Dimensions:

UNIT : mm

A	B	C	D	E	IND. RANGE
15.24 MAX	18.54 MAX	12.7 DIA.	7.62 MAX	12.7	10uH ~ 1000uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (uH)	SRF (MHZ)	DCR (Ω) MAX	Isat (A)	Irms (A)
P34I5022 - 100MA	10±20%	30	0.040	8.0	3.9
- 150MA	15±20%	20	0.048	7.0	3.4
- 220MA	22±20%	18	0.059	6.0	3.1
- 330MA	33±20%	14	0.075	5.0	2.8
- 470MA	47±20%	10	0.097	4.0	2.4
- 680MA	68±20%	9	0.138	3.0	2.0
- 101MA	100±20%	7	0.207	2.4	1.7
- 151MA	150±0%	6	0.293	2.1	1.3
- 221MA	220±20%	5	0.47	1.9	1.1
- 331MA	330±20%	4	0.78	1.1	0.86
- 471MA	470±20%	3	1.08	1.1	0.73
- 681MA	680±20%	2.5	1.40	0.96	0.64
- 102MA	1000±20%	2	2.01	0.80	0.53

1. Inductance tested at 100KHZ, 0.1Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typical at Isat.
4. $\Delta t = 40^{\circ}\text{C}$ typical at Irms.
5. Operating temperature range -40°C to $+85^{\circ}\text{C}$.
6. Electrical specifications at 25°C .

SMD POWER INDUCTOR P34J SERIES

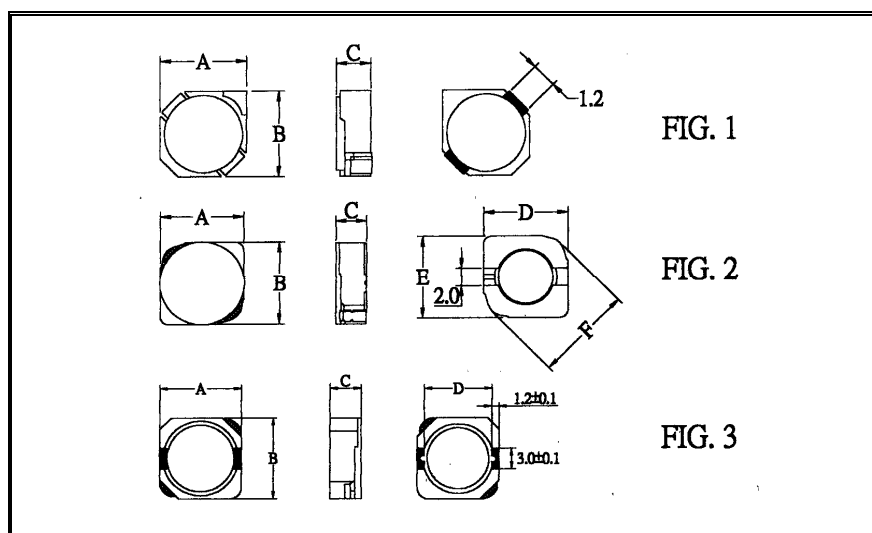
Application:

- ♦ Portable phone
- ♦ Portable electric device

Features:

- ♦ Excellent solder-ability and high heat resistance for reflow soldering.
- ♦ Small & low profile
- ♦ Large rated current & Low DCR
- ♦ Provided with embossed carrier tape packaging for automatic mounting machines.

Configuration:

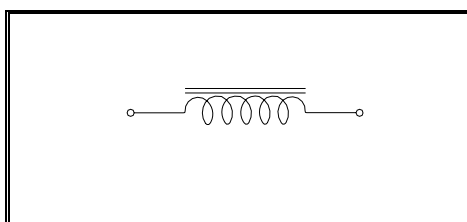


Dimensions:

UNIT: mm

SERIES	A	B	C	D	E	F	FIG.	IND. RANGE
P34J 2D11B	3.2MAX	3.2MAX	1.2MAX	3.2MAX	3.2MAX	4.1MAX	2	1.5μH ~ 22μH
P34J 2D18B	3.2MAX	3.2MAX	1.2MAX				1	1.5μH ~ 33μH
P34J 3D16B	3.8 REF	3.8 REF	1.8 MAX	3.6MAX	3.6MAX	4.95MAX	2	1.5μH ~ 33μH
P34J 4D18B	4.7 REF	4.7 REF	2.0 MAX	4.5 REF	4.5 REF	6.9 MAX	2	1.0μH ~ 39μH
P34J 4D28B	4.7 REF	4.7 REF	3.0 MAX	4.5 REF	4.5 REF	6.9 MAX	2	1.2μH ~ 180μH
P34J 5D18B	5.7 REF	5.7 REF	2.1 MAX	5.5 REF	5.5 REF	8.2 MAX	2	4.1μH ~ 100μH
P34J 5D28B	5.7 REF	5.7 REF	3.0 MAX	5.6 REF	5.6 REF	8.2 MAX	2	2.6μH ~ 100μH
P34J 6D28B	6.7 REF	6.7 REF	3.0 MAX	6.5 REF	6.5 REF	9.5 MAX	2	3.0μH ~ 100μH
P34J 6D38B	6.7 REF	6.7 REF	4.1 MAX	6.5 REF	6.5 REF	9.5 MAX	2	3.3μH ~ 100μH
P34J 10D40	10.1 REF	10.1 REF	4.1 MAX	7.7 REF			3	1.5μH ~ 330μH

Schematics:

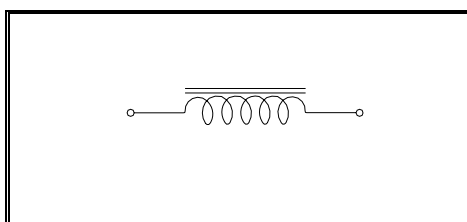


Specification: < P34J 2D11B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34J2D11B - 1R5NA	1.5 ±30%	100 KHZ	0.068	0.90
- 2R2NA	2.2 ±30%	100 KHZ	0.098	0.78
- 3R3NA	3.3 ±30%	100 KHZ	0.123	0.60
- 4R7NA	4.7 ±30%	100 KHZ	0.170	0.50
- 6R8NA	6.8 ±30%	100 KHZ	0.260	0.44
- 100NA	10 ±30%	100 KHZ	0.400	0.35
- 220NA	22 ±30%	100 KHZ	0.77	0.19

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 25% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Schematics:

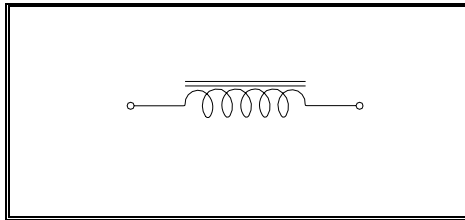


Specification: < P34J 2D18B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34J2D18B - 2R2NA	2.2 $\pm$ 30%	100 KHZ	0.098	0.78
- 4R7NA	4.7 $\pm$ 30%	100 KHZ	0.170	0.50
- 100NA	10 $\pm$ 30%	100 KHZ	0.400	0.35

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 25% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Schematics:



Specification: < P34J 3D16B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34J3D16B - 1R5NA	1.5 ±30%	100 KHZ	0.056	1.55
- 2R2NA	2.2 ±30%	100 KHZ	0.065	1.20
- 3R3NA	3.3 ±30%	100 KHZ	0.082	1.10
- 4R7NA	4.7 ±30%	100 KHZ	0.104	0.90
- 6R8NA	6.8 ±30%	100 KHZ	0.122	0.73
- 100NA	10 ±30%	100 KHZ	0.208	0.55
- 150NA	15 ±30%	100 KHZ	0.299	0.42
- 220NA	22 ±30%	100 KHZ	0.455	0.35
- 330NA	33 ±30%	100 KHZ	0.611	0.32
- 470NA	47 ±30%	100 KHZ	1.080	0.28
- 680NA	68 ±30%	100 KHZ	1.430	0.24
- 101NA	100 ±30%	100 KHZ	1.820	0.17

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 25% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34J 4D18B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34J4D18B - 1R0NA	1.0 ±30%	100 KHZ	0.045	1.72
- 2R2NA	2.2 ±30%	100 KHZ	0.075	1.32
- 2R7NA	2.7 ±30%	100 KHZ	0.105	1.28
- 3R3NA	3.3 ±30%	100 KHZ	0.110	1.04
- 3R9NA	3.9 ±30%	100 KHZ	0.155	0.88
- 4R7NA	4.7 ±30%	100 KHZ	0.162	0.84
- 5R6NA	5.6 ±30%	100 KHZ	0.170	0.80
- 6R8NA	6.8 ±30%	100 KHZ	0.200	0.76
- 8R2NA	8.2 ±30%	100 KHZ	0.245	0.68
- 100NA	10 ±30%	100 KHZ	0.260	0.61
- 120NA	12 ±30%	100 KHZ	0.280	0.56
- 150NA	15 ±30%	100 KHZ	0.300	0.50
- 180NA	18 ±30%	100 KHZ	0.338	0.48
- 220NA	22 ±30%	100 KHZ	0.397	0.41
- 270NA	27 ±30%	100 KHZ	0.441	0.35
- 330NA	33 ±30%	100 KHZ	0.694	0.32
- 390NA	39 ±30%	100 KHZ	0.709	0.30

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 25% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34J 4D28B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34J4D28B - 1R2NA	1.2 ±30%	100 KHZ	0.024	2.56
- 1R8NA	1.8 ±30%	100 KHZ	0.028	2.20
- 2R2NA	2.2 ±30%	100 KHZ	0.031	2.04
- 2R7NA	2.7 ±30%	100 KHZ	0.043	1.60
- 3R3NA	3.3 ±30%	100 KHZ	0.049	1.57
- 3R9NA	3.9 ±30%	100 KHZ	0.065	1.44
- 4R7NA	4.7 ±30%	100 KHZ	0.072	1.32
- 5R6NA	5.6 ±30%	100 KHZ	0.101	1.17
- 6R8NA	6.8 ±30%	100 KHZ	0.109	1.12
- 8R2NA	8.2 ±30%	100 KHZ	0.118	1.04
- 100NA	10 ±30%	100 KHZ	0.128	1.00
- 120NA	12 ±30%	100 KHZ	0.132	0.84
- 150NA	15 ±30%	100 KHZ	0.149	0.76
- 180NA	18 ±30%	100 KHZ	0.166	0.72
- 220NA	22 ±30%	100 KHZ	0.235	0.70
- 270NA	27 ±30%	100 KHZ	0.261	0.58
- 330NA	33 ±30%	100 KHZ	0.378	0.56
- 390NA	39 ±30%	100 KHZ	0.384	0.50
- 470NA	47 ±30%	100 KHZ	0.587	0.48
- 560NA	56 ±30%	100 KHZ	0.625	0.41
- 680NA	68 ±30%	100 KHZ	0.899	0.35
- 820NA	82 ±30%	100 KHZ	0.915	0.32
- 101NA	100 ±30%	100 KHZ	1.02	0.29
- 121NA	120 ±30%	100 KHZ	1.27	0.27
- 151NA	150 ±30%	100 KHZ	1.35	0.24
- 181NA	180 ±30%	100 KHZ	1.54	0.22

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 25% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34J 5D18B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34J5D18B - 4R1NA	4.1 ±30%	10 KHZ	0.057	1.95
- 5R4NA	5.4 ±30%	10 KHZ	0.076	1.60
- 6R2NA	6.2 ±30%	10 KHZ	0.096	1.40
- 8R9NA	8.9 ±30%	10 KHZ	0.116	1.25
- 100NA	10 ±30%	10 KHZ	0.124	1.20
- 120NA	12 ±30%	10 KHZ	0.153	1.10
- 150NA	15 ±30%	10 KHZ	0.196	0.97
- 180NA	18 ±30%	10 KHZ	0.210	0.85
- 220NA	22 ±30%	10 KHZ	0.290	0.80
- 270NA	27 ±30%	10 KHZ	0.330	0.75
- 330NA	33 ±30%	10 KHZ	0.386	0.65
- 390NA	39 ±30%	10 KHZ	0.520	0.57
- 470NA	47 ±30%	10 KHZ	0.595	0.54
- 560NA	56 ±30%	10 KHZ	0.665	0.50
- 680NA	68 ±30%	10 KHZ	0.840	0.43
- 820NA	82 ±30%	10 KHZ	0.978	0.41
- 101NA	100 ±30%	10 KHZ	1.200	0.36

1. Inductance tested at 10KHz 0.25Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 35% inductance Reduction from the Initial value or coil temperature to rise by 30°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34J 5D28B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34J5D28B - 2R6NA	2.6 ±30%	10 KHZ	0.018	2.60
- 3R0NA	3.0 ±30%	10 KHZ	0.024	2.40
- 4R2NA	4.2 ±30%	10 KHZ	0.031	2.20
- 5R3NA	5.3 ±30%	10 KHZ	0.038	1.90
- 6R2NA	6.2 ±30%	10 KHZ	0.045	1.80
- 8R2NA	8.2 ±30%	10 KHZ	0.053	1.60
- 100NA	10 ±30%	10 KHZ	0.065	1.30
- 120NA	12 ±30%	10 KHZ	0.076	1.20
- 150NA	15 ±30%	10 KHZ	0.103	1.10
- 180NA	18 ±30%	10 KHZ	0.110	1.00
- 220NA	22 ±30%	10 KHZ	0.122	0.90
- 270NA	27 ±30%	10 KHZ	0.175	0.85
- 330NA	33 ±30%	10 KHZ	0.183	0.75
- 390NA	39 ±30%	10 KHZ	0.212	0.70
- 470NA	47 ±30%	10 KHZ	0.260	0.62
- 560NA	56 ±30%	10 KHZ	0.305	0.58
- 680NA	68 ±30%	10 KHZ	0.355	0.52
- 820NA	82 ±30%	10 KHZ	0.463	0.46
- 101NA	100 ±30%	10 KHZ	0.520	0.42

1. Inductance tested at 10KHz 0.25Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 35% inductance Reduction from the Initial value or coil temperature to rise by 30°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34J 6D28B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34J6D28B - 3R0NA	3.0 ±30%	10 KHZ	0.024	3.00
- 3R9NA	3.9 ±30%	10 KHZ	0.027	2.60
- 5R0NA	5.0 ±30%	10 KHZ	0.031	2.40
- 6R0NA	6.0 ±30%	10 KHZ	0.035	2.25
- 7R3NA	7.3 ±30%	10 KHZ	0.054	2.10
- 8R6NA	8.6 ±30%	10 KHZ	0.058	1.85
- 100NA	10 ±30%	10 KHZ	0.065	1.70
- 120NA	12 ±30%	10 KHZ	0.070	1.55
- 150NA	15 ±30%	10 KHZ	0.084	1.40
- 180NA	18 ±30%	10 KHZ	0.095	1.32
- 220NA	22 ±30%	10 KHZ	0.128	1.20
- 270NA	27 ±30%	10 KHZ	0.142	1.05
- 330NA	33 ±30%	10 KHZ	0.165	0.97
- 390NA	39 ±30%	10 KHZ	0.210	0.86
- 470NA	47 ±30%	10 KHZ	0.238	0.80
- 560NA	56 ±30%	10 KHZ	0.277	0.73
- 680NA	68 ±30%	10 KHZ	0.304	0.65
- 820NA	82 ±30%	10 KHZ	0.390	0.60
- 101NA	100 ±30%	10 KHZ	0.535	0.54

1. Inductance tested at 10KHz 0.25Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 35% inductance Reduction from the Initial value or coil temperature to rise by 30°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34J 6D38B SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34J6D38B - 3R3NA	3.3 ±30%	10 KHZ	0.020	3.50
- 5R0NA	5.0 ±30%	10 KHZ	0.024	2.90
- 6R2NA	6.2 ±30%	10 KHZ	0.027	2.50
- 7R4NA	7.4 ±30%	10 KHZ	0.031	2.30
- 8R7NA	8.7 ±30%	10 KHZ	0.034	2.20
- 100NA	10 ±30%	10 KHZ	0.038	2.00
- 120NA	12 ±30%	10 KHZ	0.053	1.70
- 150NA	15 ±30%	10 KHZ	0.057	1.60
- 180NA	18 ±30%	10 KHZ	0.092	1.50
- 220NA	22 ±30%	10 KHZ	0.096	1.30
- 270NA	27 ±30%	10 KHZ	0.109	1.20
- 330NA	33 ±30%	10 KHZ	0.124	1.10
- 390NA	39 ±30%	10 KHZ	0.138	1.00
- 470NA	47 ±30%	10 KHZ	0.155	0.95
- 560NA	56 ±30%	10 KHZ	0.202	0.85
- 680NA	68 ±30%	10 KHZ	0.234	0.75
- 820NA	82 ±30%	10 KHZ	0.314	0.70
- 101NA	100 ±30%	10 KHZ	0.358	0.65

1. Inductance tested at 10KHz 0.25Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 35% inductance Reduction from the Initial value or coil temperature to rise by 30°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34J 10D40 SERIES>

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (mΩ) MAX	Rated Current (A) MAX
P34J10D40 - 1R5NA	1.5 ± 30%	100 KHz	8.1	10.0
- 2R5NA	2.5 ± 30%	100 KHz	10	7.5
- 3R8NA	3.8 ± 30%	100 KHz	13	6.0
- 5R2NA	5.2 ± 30%	100 KHz	22	5.5
- 7R0NA	7.0 ± 30%	100 KHz	27	4.8
- 100NA	10 ± 30%	100 KHz	35	4.4
- 150NA	15 ± 30%	100 KHz	50	3.6
- 220NA	22 ± 30%	100 KHz	73	2.9
- 330NA	33 ± 30%	100 KHz	93	2.3
- 470NA	47 ± 30%	100 KHz	128	2.1
- 680NA	68 ± 30%	100 KHz	213	1.5
- 101NA	100 ± 30%	100 KHz	304	1.35
- 151NA	150 ± 30%	100 KHz	506	1.15
- 221NA	220 ± 30%	100 KHz	756	0.92
- 331NA	330 ± 30%	100 KHz	1090	0.70

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 35% inductance Reduction from the Initial value .
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

SMD POWER INDUCTOR P34K0628 SERIES

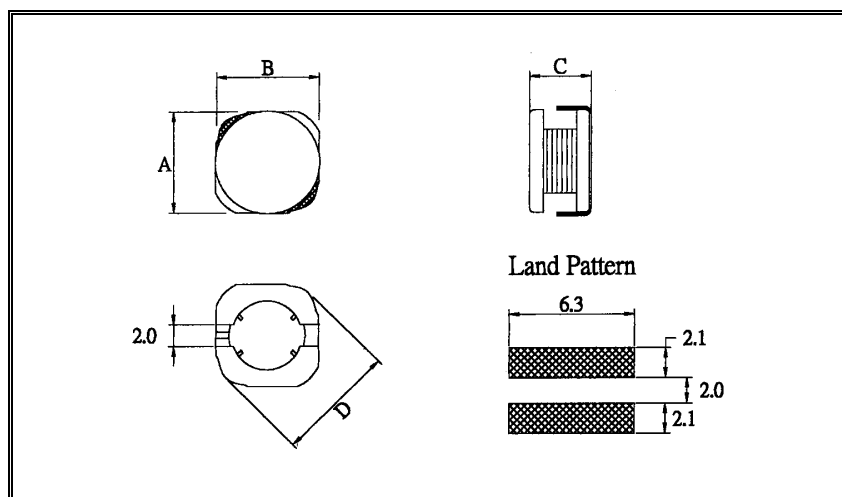
Application:

- ♦ Portable phone
- ♦ Portable electric device

Features:

- ♦ Excellent solder-ability and high heat resistance for reflow soldering.
- ♦ Small & low profile
- ♦ Large rated current
- ♦ Low DCR
- ♦ Provided with embossed carrier tape packaging for automatic mounting machines.

Configuration:

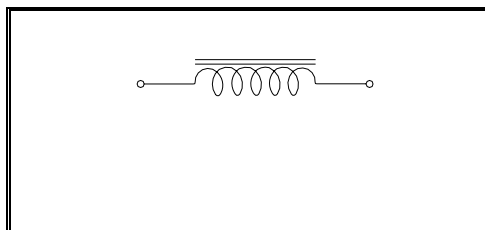


Dimensions:

UNIT: mm

A	B	C	D	IND. RANGE
6.0 ± 0.2	6.0 ± 0.2	3.2 ± 0.2	7.0 ± 0.2	2.6uH ~ 100uH

Schematics:



Specification:

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR ($m\Omega$) MAX	Rated Current (A) MAX
P34K0628 - 2R6MA	$2.6 \pm 20\%$	1 KHz	28.6	7.2
- 3R0MA	$3.0 \pm 20\%$	1 KHz	31.0	6.0
- 4R2MA	$4.2 \pm 20\%$	1 KHz	47.7	5.2
- 5R3MA	$5.3 \pm 20\%$	1 KHz	57.7	4.7
- 6R2MA	$6.2 \pm 20\%$	1 KHz	71.4	3.8
- 8R2MA	$8.2 \pm 20\%$	1 KHz	83.5	3.4
- 100MA	$10 \pm 20\%$	1 KHz	120	3.0
- 120MA	$12 \pm 20\%$	1 KHz	129	2.8
- 150MA	$15 \pm 20\%$	1 KHz	168	2.5
- 180MA	$18 \pm 20\%$	1 KHz	189	2.3
- 220MA	$22 \pm 20\%$	1 KHz	263	2.0
- 270MA	$27 \pm 20\%$	1 KHz	303	1.8
- 330MA	$33 \pm 20\%$	1 KHz	389	1.6
- 390MA	$39 \pm 20\%$	1 KHz	429	1.4
- 470MA	$47 \pm 20\%$	1 KHz	585	1.3
- 560MA	$56 \pm 20\%$	1 KHz	646	1.2
- 680MA	$68 \pm 20\%$	1 KHz	754	1.1
- 820MA	$82 \pm 20\%$	1 KHz	992	1.05
- 101MA	$100 \pm 20\%$	1 KHz	1105	1.0

1. Inductance tested at 1KHz 1.0Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

SMD POWER INDUCTOR P34L3DF SERIES

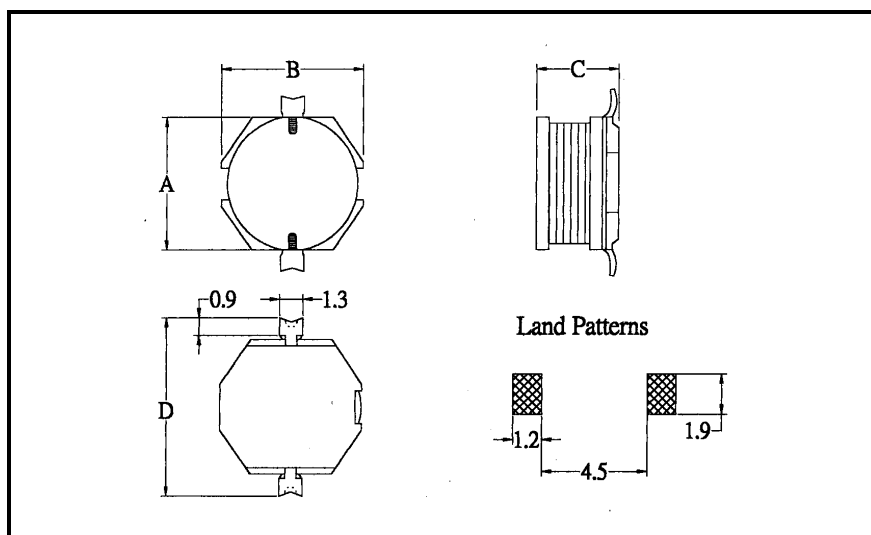
Application:

- ♦ Portable phone
- ♦ Portable electric device

Features:

- ♦ Miniature, low profile DC choke
- ♦ Suitable for reflow soldering
- ♦ Supplied on tape and reel for auto assembly

Configuration:

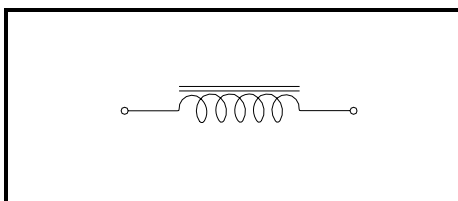


Dimensions:

UNIT: mm

SERIES	A	B	C	D	IND. RANGE
P34L 3DF	4.4 MAX	4.4 MAX	3.1 MAX	6.3 ± 0.3	1.0μH ~ 270μH

Schematics:



Specification: < P34L 3DF SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) MAX	Rated Current (A) MAX
P34L3DF - 1R0MA	1.0 ±20%	100 KHZ	0.072	1.34
- 1R5MA	1.5 ±20%	100 KHZ	0.082	1.22
- 2R2MA	2.2 ±30%	100 KHZ	0.108	1.08
- 3R3MA	3.3 ±30%	100 KHZ	0.134	0.97
- 4R7MA	4.7 ±30%	100 KHZ	0.160	0.91
- 6R8NA	6.8 ±30%	100 KHZ	0.197	0.79
- 100NA	10 ±30%	100 KHZ	0.330	0.63
- 120NA	12 ±30%	100 KHZ	0.350	0.59
- 150NA	15 ±30%	100 KHZ	0.400	0.56
- 180NA	18 ±30%	100 KHZ	0.450	0.51
- 220NA	22 ±30%	100 KHZ	0.534	0.47
- 270NA	27 ±30%	100 KHZ	0.618	0.43
- 330NA	33 ±30%	100 KHZ	0.903	0.37
- 390NA	39 ±30%	100 KHZ	1.010	0.34
- 470NA	47 ±30%	100 KHZ	1.355	0.29
- 560NA	56 ±30%	100 KHZ	1.515	0.28
- 680NA	68 ±30%	100 KHZ	1.713	0.26
- 820NA	82 ±30%	100 KHZ	2.312	0.22
- 101NA	100 ±30%	100 KHZ	2.540	0.21
- 121NA	120 ±30%	100 KHZ	3.502	0.19
- 151NA	150 ±30%	100 KHZ	4.132	0.17
- 181NA	180 ±30%	100 KHZ	4.534	0.16
- 221NA	220 ±30%	100 KHZ	6.646	0.13
- 271NA	270 ±30%	100 KHZ	7.523	0.12

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

SMD POWER INDUCTOR P34L3DM SERIES

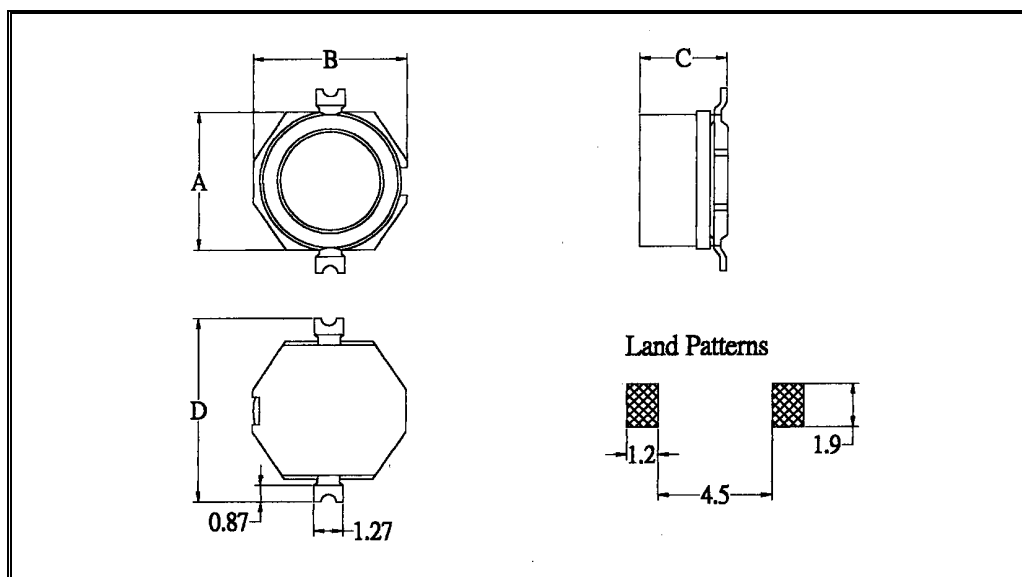
Application:

- ♦ Portable phone
- ♦ Portable electric device

Features:

- ♦ Miniature, low profile DC choke
- ♦ Suitable for reflow soldering
- ♦ Supplied on tape and reel for auto assembly

Configuration:

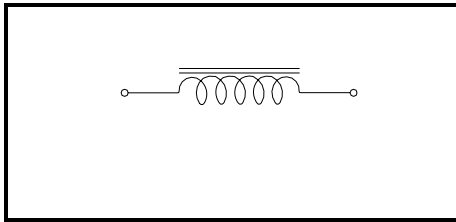


Dimensions:

UNIT: mm

SERIES	A	B	C	D	IND. RANGE
P34L 3DM	4.4 MAX	4.4 MAX	2.75 MAX	6.3 ± 0.3	100uH ~ 4700uH

Schematics:



Specification: < P34L 3DM SERIES >

AFTEK PART NO	INDUCTANCE (uH)	Q MIN	TEST FREQ.	DCR (Ω) MAX	Rated current (mA) MAX
P34L3DM –101NA	100 ±30%	30	100 KHZ	0.65	32
- 151NA	150 ±30%	35	100 KHZ	0.80	28
- 221NA	220 ±30%	35	100 KHZ	1.10	22
- 331NA	330 ±30%	35	100 KHZ	1.30	16
- 471NA	470 ±30%	35	100 KHZ	1.90	14
- 681NA	680 ±30%	35	100 KHZ	2.50	11
- 102NA	1000 ±30%	35	100 KHZ	3.10	9
- 152NA	1500 ±30%	35	100 KHZ	5.30	8
- 222NA	2200 ±30%	35	100 KHZ	8.40	7
- 332NA	3300 ±30%	35	100 KHZ	10.10	5
- 472NA	4700 ±30%	35	100 KHZ	13.00	4

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current: Maximum allowable DC current is that which causes a 10% inductance reduction from the Initial value. or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

SMD POWER INDUCTOR P34L SERIES

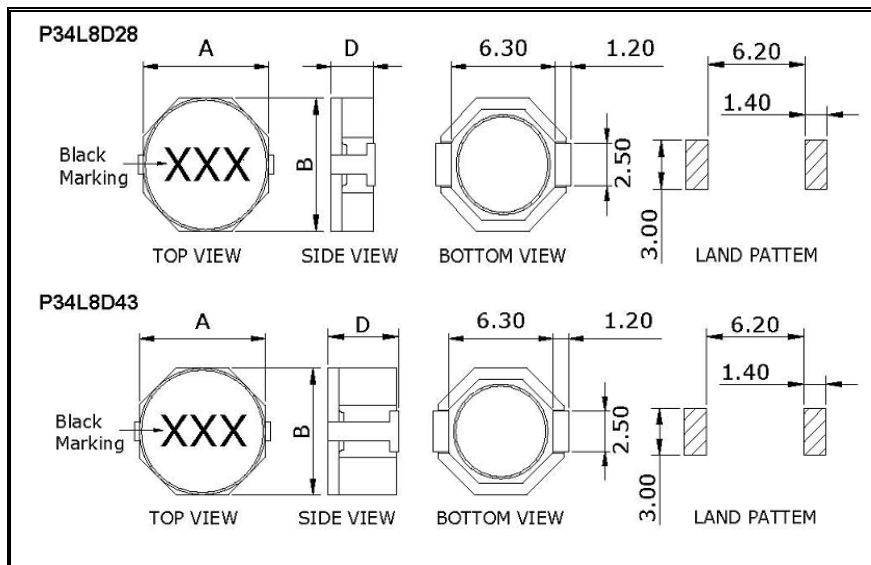
Application:

- ♦ Portable phone
- ♦ Portable electric device

Features:

- ♦ Excellent solder-ability and high heat resistance for reflow soldering.
- ♦ Small & low profile
- ♦ Large rated current & Low DCR
- ♦ Provided with embossed carrier tape packaging for automatic mounting machines.

Configuration:

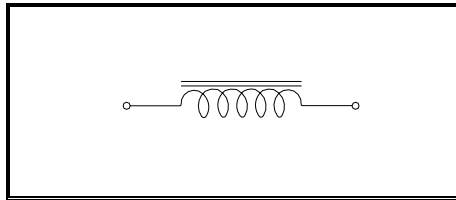


Dimensions:

UNIT: mm

SERIES	A	B	D	IND. RANGE
P34L8D28	8.3max	8.3max	3.0max	2.5 ~ 100uH
P34L8D43	8.3max	8.3max	4.5max	2.0 ~ 100uH

Schematics:

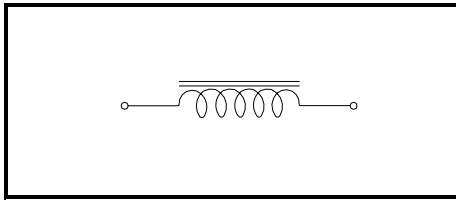


Specification: < P34L 8D28 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) ±20%	Rated Current (A) MAX
P34L8D28 -2R5MA	2.5 ±20%	100KHz	0.0156	4.50
-3R3MA	3.3 ±20%	100KHz	0.0182	4.00
-4R7MA	4.7 ±20%	100KHz	0.0247	3.40
-7R3MA	7.3 ±20%	100KHz	0.039	2.80
-100MA	10 ±20%	100KHz	0.047	2.50
-150MA	15 ±20%	100KHz	0.069	1.90
-220MA	22 ±20%	100KHz	0.099	1.60
-330MA	33 ±20%	100KHz	0.156	1.30
-470MA	47 ±20%	100KHz	0.195	1.15
-680MA	68 ±20%	100KHz	0.286	0.92
-101MA	100 ±20%	100KHz	0.430	0.75

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 25% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Schematics:



Specification: < P34L 8D43 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ (KHz)	DCR (Ω) ±20%	Rated Current (A) MAX
P34L8D43 -2R0MA	2.0 ±20%	100	0.014	7.0
-3R9MA	3.9 ±20%	100	0.019	5.9
-4R7MA	4.7 ±20%	100	0.022	5.6
-6R8MA	6.8 ±20%	100	0.025	4.4
-100MA	10 ±20%	100	0.036	4.0
-150MA	15 ±20%	100	0.053	2.9
-220MA	22 ±20%	100	0.075	2.6
-330MA	33 ±20%	100	0.125	2.2
-470MA	47 ±20%	100	0.150	1.8
-680MA	68 ±20%	100	0.240	1.5
-101MA	100 ±20%	100	0.360	1.3

1. Inductance tested at 100KHz 0.1Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 25% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

SMD POWER INDUCTOR P34H SERIES

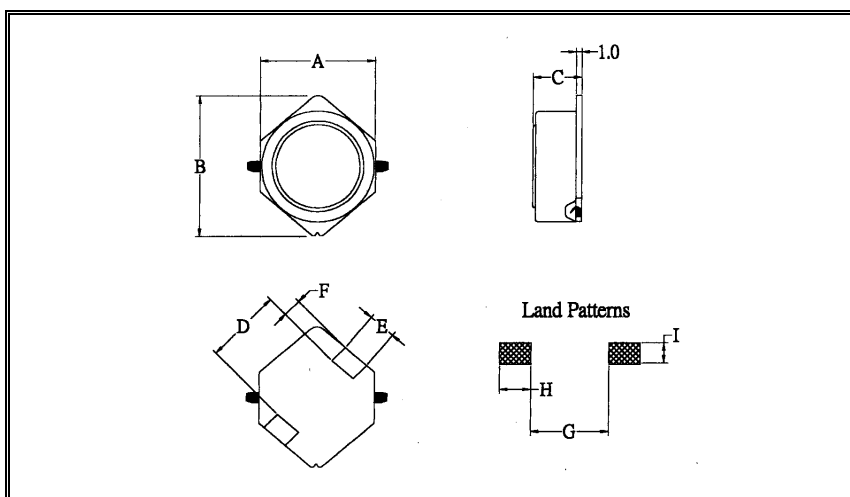
Application:

- ♦ Portable telephones.
- ♦ Personal computers.
- ♦ Hard disk drives.
- ♦ Other electronic equipment.

Features:

- ♦ Low profile, low DC resistance, high current handling capacities characterize the P34H series.
- ♦ Because of magnetically shielded, these parts can be used in high-density mounting configuration.
- ♦ Flat bottom surface ensures secure, reliable mounting.
- ♦ Provided in embossed carrier tape packaging for use with automatic mounting machines.

Configuration:

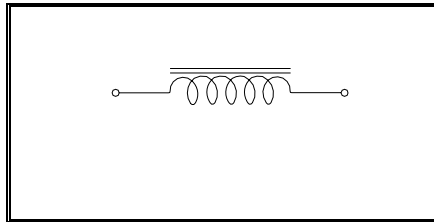


Dimensions:

UNIT : mm

SERIES	A	B	C	D	E	F	G	H	I	IND.RANGE
P34H6028	6.0±0.2	6.0±0.2	2.8±0.2	4.0±0.2	2.0±0.1	0.9±0.1	4.9±0.2	1.5	2.2	4.7 ~ 100uH
P34H7028	7.0±0.2	7.0±0.2	2.8±0.2	4.9±0.2	2.0±0.1	0.9±0.1	4.9±0.2	1.5	2.2	3.3 ~ 47μH
P34H7030	7.0±0.2	7.0±0.2	3.0±0.2	4.9±0.2	2.0±0.1	0.9±0.1	4.9±0.2	1.5	2.2	3.3 ~ 100μH
P34H7032	7.0±0.2	7.0±0.2	3.2±0.2	4.9±0.2	2.0±0.1	0.9±0.1	4.9±0.2	1.5	2.2	3.3 ~ 1000μH
P34H7045	7.0±0.2	7.0±0.2	4.5±0.2	4.9±0.2	2.0±0.1	0.9±0.1	4.9±0.2	1.5	2.2	3.3 ~ 1000μH
P34H10145	10.1±0.3	10.1±0.3	4.5±0.2	6.0±0.2	3.0±0.1	2.0±0.1	6.0±0.2	2.5	3.2	10 ~ 1500μH
P34H12555	12.5±0.3	12.5±0.3	5.5±0.2	8.3±0.2	3.0±0.1	2.0±0.1	8.6±0.2	2.5	3.2	6.0 ~ 1500μH
P34H12565	12.5±0.3	12.5±0.3	6.5±0.2	8.3±0.2	3.0±0.1	2.0±0.1	8.6±0.2	2.5	3.2	2.0 ~ 220μH
P34H12575	12.5±0.3	12.5±0.3	7.5±0.2	8.3±0.2	3.0±0.1	2.0±0.1	8.6±0.2	2.5	3.2	1.2 ~ 220μH

Schematics:



Specification: < P34H 6028 SERIES >

AFTEK PART NO	INDUCTANCE (μ h)	TEST FREQ.	DCR (Ω) $\pm 20\%$	Rated Current (A) MAX
P34H6028 - 4R7MA	4.7 $\pm 20\%$	1KHz	0.028	1.8
- 6R8MA	6.8 $\pm 20\%$	1KHz	0.035	1.5
- 100MA	10 $\pm 20\%$	1KHz	0.053	1.3
- 150MA	15 $\pm 20\%$	1KHz	0.075	1.0
- 220MA	22 $\pm 20\%$	1KHz	0.104	0.77
- 330MA	33 $\pm 20\%$	1KHz	0.148	0.69
- 470MA	47 $\pm 20\%$	1KHz	0.210	0.59
- 680MA	68 $\pm 20\%$	1KHz	0.290	0.50
- 101MA	100 $\pm 20\%$	1KHz	0.430	0.42

1. Inductance tested at 1KHz 0.5Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34H 7028 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) $\pm 20\%$	Rated Current (A) MAX
P34H7028 - 3R3MA	3.3 $\pm 20\%$	1KHz	0.04	1.60
- 4R7MA	4.7 $\pm 20\%$	1KHz	0.05	1.50
- 6R8MA	6.8 $\pm 20\%$	1KHz	0.06	1.30
- 100MA	10 $\pm 20\%$	1KHz	0.08	1.10
- 150MA	15 $\pm 20\%$	1KHz	0.13	0.88
- 220MA	22 $\pm 20\%$	1KHz	0.18	0.75
- 330MA	33 $\pm 20\%$	1KHz	0.24	0.65
- 470MA	47 $\pm 20\%$	1KHz	0.34	0.54

1. Inductance tested at 1KHz 0.5Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34H 7030 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) $\pm 20\%$	Rated Current (A) MAX
P34H7030 - 3R3MA	3.3 $\pm 20\%$	1KHz	0.02	1.8
- 4R7MA	4.7 $\pm 20\%$	1KHz	0.03	1.6
- 6R8MA	6.8 $\pm 20\%$	1KHz	0.04	1.5
- 100MA	10 $\pm 20\%$	1KHz	0.05	1.3
- 150MA	15 $\pm 20\%$	1KHz	0.08	1.0
- 220MA	22 $\pm 20\%$	1KHz	0.11	0.86
- 330MA	33 $\pm 20\%$	1KHz	0.16	0.65
- 470MA	47 $\pm 20\%$	1KHz	0.24	0.57
- 680MA	68 $\pm 20\%$	1KHz	0.31	0.49
- 101MA	100 $\pm 20\%$	1KHz	0.45	0.35

1. Inductance tested at 1KHz 0.5Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34H 7032 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) ±20%	Rated Current (A) MAX
P34H7032 - 3R3MA	3.3 ±20%	1KHz	0.02	1.9
- 4R7MA	4.7 ±20%	1KHz	0.03	1.7
- 6R8MA	6.8 ±20%	1KHz	0.04	1.5
- 100MA	10 ±20%	1KHz	0.05	1.4
- 150MA	15 ±20%	1KHz	0.08	1.1
- 220MA	22 ±20%	1KHz	0.11	0.96
- 330MA	33 ±20%	1KHz	0.16	0.75
- 470MA	47 ±20%	1KHz	0.24	0.67
- 680MA	68 ±20%	1KHz	0.31	0.59
- 101MA	100 ±20%	1KHz	0.45	0.45
- 151MA	150 ±20%	1KHz	0.65	0.37
- 221MA	220 ±20%	1KHz	1.05	0.29
- 331MA	330 ±20%	1KHz	1.67	0.22
- 471MA	470 ±20%	1KHz	2.05	0.20
- 681MA	680 ±20%	1KHz	3.15	0.16
- 102MA	1000 ±20%	1KHz	4.78	0.13

1. Inductance tested at 1KHz 0.5Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34H 7045 SERIES >

AFTEK PART NO	INDUCTAN CE (uH)	TEST FREQ.	DCR (Ω) $\pm 20\%$	Isat (A)	Irms (A)
P34H7045 - 3R3MA	3.3 $\pm 20\%$	1KHz	0.02	2.5	2.3
- 4R7MA	4.7 $\pm 20\%$	1KHz	0.03	2.0	2.1
- 6R8MA	6.8 $\pm 20\%$	1KHz	0.04	1.7	1.74
- 100MA	10 $\pm 20\%$	1KHz	0.05	1.3	1.78
- 150MA	15 $\pm 20\%$	1KHz	0.06	1.1	1.53
- 220MA	22 $\pm 20\%$	1KHz	0.07	0.9	1.34
- 330MA	33 $\pm 20\%$	1KHz	0.09	0.82	1.09
- 470MA	47 $\pm 20\%$	1KHz	0.13	0.75	0.92
- 680MA	68 $\pm 20\%$	1KHz	0.18	0.60	0.77
- 101MA	100 $\pm 20\%$	1KHz	0.25	0.50	0.65
- 151MA	150 $\pm 20\%$	1KHz	0.34	0.40	0.55
- 221MA	220 $\pm 20\%$	1KHz	0.52	0.33	0.45
- 331MA	330 $\pm 20\%$	1KHz	0.74	0.25	0.37
- 471MA	470 $\pm 20\%$	1KHz	1.05	0.22	0.31
- 681MA	680 $\pm 20\%$	1KHz	1.48	0.20	0.27
- 102MA	1000 $\pm 20\%$	1KHz	2.28	0.14	0.25

1. Inductance tested at 1KHz 0.5Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34H 10145 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) $\pm 20\%$	Rated Current (A) MAX
P34H10145 –100MA	10 $\pm 20\%$	1KHz	0.04	3.0
- 150MA	15 $\pm 20\%$	1KHz	0.05	2.4
- 220MA	22 $\pm 20\%$	1KHz	0.06	2.1
- 330MA	33 $\pm 20\%$	1KHz	0.08	1.6
- 470MA	47 $\pm 20\%$	1KHz	0.10	1.4
- 680MA	68 $\pm 20\%$	1KHz	0.14	1.2
- 101MA	100 $\pm 20\%$	1KHz	0.20	1.0
- 151MA	150 $\pm 20\%$	1KHz	0.35	0.79
- 221MA	220 $\pm 20\%$	1KHz	0.47	0.65
- 331MA	330 $\pm 20\%$	1KHz	0.68	0.54
- 471MA	470 $\pm 20\%$	1KHz	1.03	0.47
- 681MA	680 $\pm 20\%$	1KHz	1.60	0.38
- 102MA	1000 $\pm 20\%$	1KHz	2.80	0.32
- 152MA	1500 $\pm 20\%$	1KHz	3.40	0.22

1. Inductance tested at 1KHz 0.5Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34H 12555 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) $\pm 20\%$	Rated Current (A) MAX
P34H12555 -6R0NA	6.0 $\pm 30\%$	1KHz	0.016	3.6
- 100MA	10 $\pm 20\%$	1KHz	0.022	3.4
- 150MA	15 $\pm 20\%$	1KHz	0.026	2.8
- 220MA	22 $\pm 20\%$	1KHz	0.034	2.3
- 330MA	33 $\pm 20\%$	1KHz	0.042	1.9
- 470MA	47 $\pm 20\%$	1KHz	0.062	1.6
- 680MA	68 $\pm 20\%$	1KHz	0.083	1.3
- 101MA	100 $\pm 20\%$	1KHz	0.117	1.1
- 151MA	150 $\pm 20\%$	1KHz	0.19	0.88
- 221MA	220 $\pm 20\%$	1KHz	0.27	0.72
- 331MA	330 $\pm 20\%$	1KHz	0.41	0.59
- 471MA	470 $\pm 20\%$	1KHz	0.52	0.49
- 681MA	680 $\pm 20\%$	1KHz	0.76	0.43
- 102MA	1000 $\pm 20\%$	1KHz	1.12	0.34
- 152MA	1500 $\pm 20\%$	1KHz	1.73	0.29

1. Inductance tested at 1KHz 0.5Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34H 12565 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) ±20%	Rated Current (A) MAX
P34H12565 - 2R0NA	2.0 ±30%	1KHz	0.012	10.0
- 4R2NA	4.2 ±30%	1KHz	0.015	7.3
- 7R0NA	7.0 ±30%	1KHz	0.018	5.7
- 100MA	10 ±20%	1KHz	0.020	5.0
- 150MA	15 ±20%	1KHz	0.024	4.2
- 220MA	22 ±20%	1KHz	0.032	3.5
- 330MA	33 ±20%	1KHz	0.041	2.8
- 470MA	47 ±20%	1KHz	0.058	2.4
- 680MA	68 ±20%	1KHz	0.079	2.0
- 101MA	100 ±20%	1KHz	0.123	1.6
- 221MA	220 ±20%	1KHz	0.273	1.0

1. Inductance tested at 1KHz 0.5Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Specification: < P34H 12575 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ.	DCR (Ω) ±20%	Rated Current (A) MAX
P34H12575 - 1R2NA	1.2 ±30%	1KHz	0.007	13
- 2R7NA	2.7 ±30%	1KHz	0.009	10
- 3R9NA	3.9 ±30%	1KHz	0.010	9
- 5R6NA	5.6 ±30%	1KHz	0.012	7.8
- 6R8NA	6.8 ±30%	1KHz	0.013	7.2
- 100MA	10 ±20%	1KHz	0.016	5.5
- 150MA	15 ±20%	1KHz	0.018	4.7
- 220MA	22 ±20%	1KHz	0.026	4.0
- 330MA	33 ±20%	1KHz	0.040	3.2

1. Inductance tested at 1KHz 0.5Vrms.
2. Rated current : Maximum allowable DC current is that which causes a 10% inductance Reduction from the Initial value or coil temperature to rise by 40°C.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

SMD POWER INDUCTOR P34E SERIES

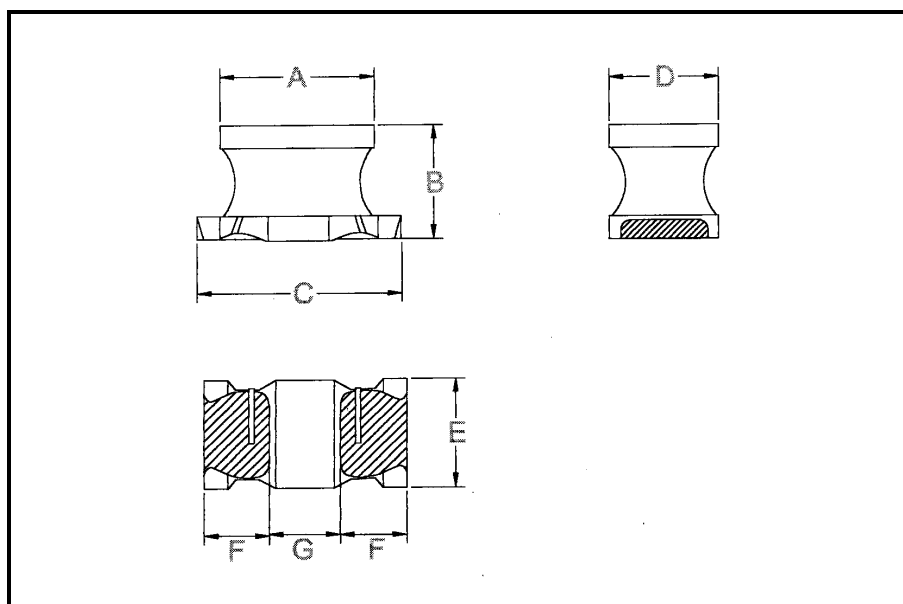
Application:

- ♦ Video, communications, audio and other electronic equipment.

Features:

- ♦ There are has outstanding frequency characteristics and a high Q value at high frequencies.
- ♦ The low DC resistance permits high current flow.
- ♦ There are has excellent solder heat resistance. Both flow and reflow soldering methods can be employed.

Configuration:

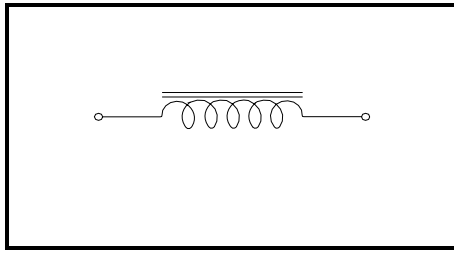


Dimensions:

UNIT : mm

SERIES	A	B	C	D	E	F	G	IND.RANGE
P34E2520	1.5± 0.2	1.7± 0.2	2.0± 0.2	1.5± 0.2	1.5± 0.2	0.5 MIN	0.5 MIN	3.3nH~470nH
P34E3216	2.3±0.2	1.8±0.2	3.2±0.3	1.6±0.2	1.6±0.2	0.7 MIN	0.7 MIN	0.15μH~100uH
P34E3225	2.5±0.2	2.0±0.2	3.2±0.3	2.5±0.2	2.5±0.2	0.7 MIN	0.7 MIN	0.1μH~560uH
P34E4532	3.6±0.2	2.6±0.2	4.5±0.3	3.2±0.2	3.2±0.2	1.0 MIN	1.0 MIN	1.0μH~2.2mH
P34E5750	5.0± 0.2	4.7± 0.2	5.7± 0.3	5.0± 0.2	5.0± 0.2	1.3 MIN	1.7 MIN	0.12uH~10mH

Schematics:



Specification: < P34E 2520 SERIES >

AFTEK PART NO	INDUCTANCE		Q		SRF MHZ MIN	DCR (Ω) MAX	Rated Current (mA)MAX
	L(nH)	TEST FREQ.	MIN	TEST FREQ.			
P34E2520 – 3N3DA	3.3 ± 0.5	100MHZ	10	250MHZ	6000	0.05	910
- 6N8KA	6.8 $\pm 10\%$	100MHZ	20	250 MHZ	5400	0.11	680
- 8N2KA	8.2 $\pm 10\%$	100MHZ	20	250 MHZ	3900	0.12	630
- 10NKA	10 $\pm 10\%$	100MHZ	30	250 MHZ	3300	0.03	1320
- 12NKA	12 $\pm 10\%$	100MHZ	30	250 MHZ	3200	0.11	680
- 15NKA	15 $\pm 10\%$	100MHZ	30	250 MHZ	2700	0.12	630
- 18NKA	18 $\pm 10\%$	100MHZ	30	250 MHZ	2600	0.10	690
- 22NKA	22 $\pm 10\%$	100MHZ	30	250 MHZ	2100	0.09	720
- 27NKA	27 $\pm 10\%$	100MHZ	40	250 MHZ	2300	0.17	540
- 33NKA	33 $\pm 10\%$	100MHZ	40	250 MHZ	1900	0.15	570
- 39NKA	39 $\pm 10\%$	100MHZ	40	250 MHZ	1700	0.09	730
- 47NKA	47 $\pm 10\%$	100MHZ	40	200 MHZ	1600	0.23	450
- 56NKA	56 $\pm 10\%$	100MHZ	40	200 MHZ	1500	0.26	430
- 68NKA	68 $\pm 10\%$	100MHZ	40	200 MHZ	1200	0.23	460
- 82NKA	82 $\pm 10\%$	100MHZ	40	150 MHZ	1100	0.42	320
- R10KA	100 $\pm 10\%$	100MHZ	40	150 MHZ	900	0.38	350
- R12KA	120 $\pm 10\%$	100MHZ	40	150 MHZ	750	0.40	320
- R15KA	150 $\pm 10\%$	100MHZ	30	150 MHZ	350	0.47	390
- R18KA	180 $\pm 10\%$	100MHZ	35	100 MHZ	700	0.71	250
- R22KA	220 $\pm 10\%$	100MHZ	35	100 MHZ	500	0.70	240
- R27KA	270 $\pm 10\%$	10MHZ	15	25.2MHZ	550	2.00	190
- R33KA	330 $\pm 10\%$	10MHZ	15	25.2MHZ	500	2.20	180
- R39KA	390 $\pm 10\%$	10MHZ	15	25.2MHZ	400	2.50	170
- R47KA	470 $\pm 10\%$	10MHZ	15	25.2MHZ	350	2.80	160

Specification: < P34E 3216 SERIES >

AFTEK PART NO	INDUCTANCE		Q		SRF MHZ MIN	DCR (Ω)	Rated current (mA)MAX
	L(uH)	TEST FREQ.	MIN	TEST FREQ.			
P34E3216 - R15KA	0.15 $\pm 10\%$	1 MHZ	20	25 MHZ	250	0.39 $\pm 40\%$	250
- R22KA	0.22 $\pm 10\%$	1 MHZ	20	25 MHZ	250	0.43 $\pm 40\%$	240
- R33KA	0.33 $\pm 10\%$	1 MHZ	30	25 MHZ	250	0.45 $\pm 40\%$	230
- R47KA	0.47 $\pm 10\%$	1 MHZ	30	25 MHZ	200	0.83 $\pm 40\%$	215
- R56KA	0.56 $\pm 10\%$	1 MHZ	30	25 MHZ	180	0.61 $\pm 40\%$	200
- R68KA	0.68 $\pm 10\%$	1 MHZ	30	25 MHZ	160	0.67 $\pm 40\%$	190
- R82KA	0.82 $\pm 10\%$	1 MHZ	30	25 MHZ	120	0.73 $\pm 40\%$	185
- 1R0KA	1.0 $\pm 10\%$	1 MHZ	35	10 MHZ	100	0.49 $\pm 30\%$	175
- 1R2KA	1.2 $\pm 10\%$	1 MHZ	35	10 MHZ	90	0.90 $\pm 30\%$	165
- 1R5KA	1.5 $\pm 10\%$	1 MHZ	35	10 MHZ	75	1.00 $\pm 30\%$	155
- 1R8KA	1.8 $\pm 10\%$	1 MHZ	35	10 MHZ	60	1.60 $\pm 30\%$	150
- 2R2KA	2.2 $\pm 10\%$	1 MHZ	35	10 MHZ	50	0.70 $\pm 30\%$	140
- 2R7KA	2.7 $\pm 10\%$	1 MHZ	35	10 MHZ	43	0.55 $\pm 30\%$	135
- 3R3KA	3.3 $\pm 10\%$	1 MHZ	35	8 MHZ	38	0.61 $\pm 30\%$	130
- 3R9KA	3.9 $\pm 10\%$	1 MHZ	35	8 MHZ	35	1.5 $\pm 30\%$	125
- 4R7KA	4.7 $\pm 10\%$	1 MHZ	35	8 MHZ	31	1.7 $\pm 30\%$	120
- 5R6KA	5.6 $\pm 10\%$	1 MHZ	35	8 MHZ	28	1.8 $\pm 30\%$	115
- 6R8KA	6.8 $\pm 10\%$	1 MHZ	35	8 MHZ	25	2.0 $\pm 30\%$	110
- 8R2KA	8.2 $\pm 10\%$	1 MHZ	35	8 MHZ	23	2.2 $\pm 30\%$	105
- 100KA	10 $\pm 10\%$	1 MHZ	35	5 MHZ	20	2.5 $\pm 30\%$	100
- 120KA	12 $\pm 10\%$	1 MHZ	35	5 MHZ	18	2.7 $\pm 30\%$	95
- 150KA	15 $\pm 10\%$	1 MHZ	35	5 MHZ	16	3.0 $\pm 30\%$	90
- 180KA	18 $\pm 10\%$	1 MHZ	35	5 MHZ	15	3.4 $\pm 30\%$	85
- 220KA	22 $\pm 10\%$	1 MHZ	40	2.5 MHZ	14	3.1 $\pm 30\%$	85
- 270KA	27 $\pm 10\%$	1 MHZ	40	2.5 MHZ	13	3.4 $\pm 30\%$	85
- 330KA	33 $\pm 10\%$	1 MHZ	40	2.5 MHZ	12	3.8 $\pm 30\%$	80
- 390KA	39 $\pm 10\%$	1 MHZ	40	2.5 MHZ	11	7.2 $\pm 30\%$	55
- 470KA	47 $\pm 10\%$	1 MHZ	40	2.5 MHZ	10	8.0 $\pm 30\%$	55
- 560KA	56 $\pm 10\%$	1 MHZ	40	2.5 MHZ	9.0	8.9 $\pm 30\%$	50
- 680KA	68 $\pm 10\%$	1 MHZ	40	2.5 MHZ	8.5	9.9 $\pm 30\%$	50
- 820KA	82 $\pm 10\%$	1 MHZ	40	2.5 MHZ	7.5	11 $\pm 30\%$	45
- 101KA	100 $\pm 10\%$	1 MHZ	40	2.5 MHZ	7.0	12 $\pm 30\%$	45

Specification: < P34E 3225 SERIES >

AFTEK PART NO	INDUCTANCE		Q		SRF MHZ MIN	DCR (Ω) MAX	Rated current
	L(uH)	TEST FREQ.	MIN	TEST FREQ.			(mA)MAX
P34E3225 - R10MA	0.10 $\pm 20\%$	1 MHZ	20	25.2MHZ	200	0.25	700
- R18MA	0.18 $\pm 20\%$	1 MHZ	20	25.2MHZ	200	0.25	650
- R27MA	0.27 $\pm 20\%$	1 MHZ	25	25.2MHZ	200	0.25	600
- R39MA	0.39 $\pm 20\%$	1 MHZ	25	25.2MHZ	200	0.25	530
- R56MA	0.56 $\pm 20\%$	1 MHZ	30	25.2MHZ	160	0.25	530
- R68MA	0.68 $\pm 20\%$	1 MHZ	30	25.2MHZ	160	0.25	470
- R82MA	0.82 $\pm 20\%$	1 MHZ	30	25.2MHZ	120	0.25	450
- 1R0KA	1.0 $\pm 10\%$	1 MHZ	20	1 MHZ	100	0.5	445
- 1R2KA	1.2 $\pm 10\%$	1 MHZ	20	1 MHZ	100	0.6	425
- 1R5KA	1.5 $\pm 10\%$	1 MHZ	20	1 MHZ	75	0.6	400
- 1R8KA	1.8 $\pm 10\%$	1 MHZ	20	1 MHZ	60	0.7	390
- 2R2KA	2.2 $\pm 10\%$	1 MHZ	20	1 MHZ	50	0.8	370
- 2R7KA	2.7 $\pm 10\%$	1 MHZ	20	1 MHZ	43	0.9	320
- 3R3KA	3.3 $\pm 10\%$	1 MHZ	20	1 MHZ	38	1.0	300
- 3R9KA	3.9 $\pm 10\%$	1 MHZ	20	1 MHZ	35	1.1	290
- 4R7KA	4.7 $\pm 10\%$	1 MHZ	20	1 MHZ	31	1.2	270
- 5R6KA	5.6 $\pm 10\%$	1 MHZ	20	1 MHZ	28	1.3	250
- 6R8KA	6.8 $\pm 10\%$	1 MHZ	20	1 MHZ	25	1.5	240
- 8R2KA	8.2 $\pm 10\%$	1 MHZ	20	1 MHZ	23	1.6	225
- 100KA	10 $\pm 10\%$	1 MHZ	35	1 MHZ	20	1.8	190
- 120KA	12 $\pm 10\%$	1 MHZ	35	1 MHZ	18	2.0	180
- 150KA	15 $\pm 10\%$	1 MHZ	35	1 MHZ	16	2.2	170
- 180KA	18 $\pm 10\%$	1 MHZ	35	1 MHZ	15	2.5	165
- 220KA	22 $\pm 10\%$	1 MHZ	35	1 MHZ	14	2.8	150
- 270KA	27 $\pm 10\%$	1 MHZ	35	1 MHZ	13	3.1	125
- 330KA	33 $\pm 10\%$	1 MHZ	40	1 MHZ	12	3.5	115
- 390KA	39 $\pm 10\%$	1 MHZ	40	1 MHZ	11	3.9	110
- 470KA	47 $\pm 10\%$	1 MHZ	40	1 MHZ	11	4.3	100
- 560KA	56 $\pm 10\%$	1 MHZ	40	1 MHZ	10	4.9	85
- 680KA	68 $\pm 10\%$	1 MHZ	40	1 MHZ	9.0	5.5	80
- 820KA	82 $\pm 10\%$	1 MHZ	40	1 MHZ	8.5	6.2	70
- 101KA	100 $\pm 10\%$	1 MHZ	40	796 KHZ	8.0	7.0	80
- 121KA	120 $\pm 10\%$	1 MHZ	40	796 KHZ	7.5	8.0	75
- 151KA	150 $\pm 10\%$	1 MHZ	40	796 KHZ	7.0	9.3	70
- 181KA	180 $\pm 10\%$	1 MHZ	40	796 KHZ	6.0	10.2	65
- 221KA	220 $\pm 10\%$	1 MHZ	40	796 KHZ	5.5	11.8	65
- 271KA	270 $\pm 10\%$	1 MHZ	40	796 KHZ	5.0	12.5	65
- 331KA	330 $\pm 10\%$	1 MHZ	40	796 KHZ	5.0	13.0	65
- 391KA	390 $\pm 10\%$	1 MHZ	50	796 KHZ	5.0	22.0	50
- 471KA	470 $\pm 10\%$	1KHZ	50	796 KHZ	5.0	25.0	45
- 561KA	560 $\pm 10\%$	1KHZ	50	796 KHZ	5.0	28.0	40

Specification: < P34E 4532 SERIES >

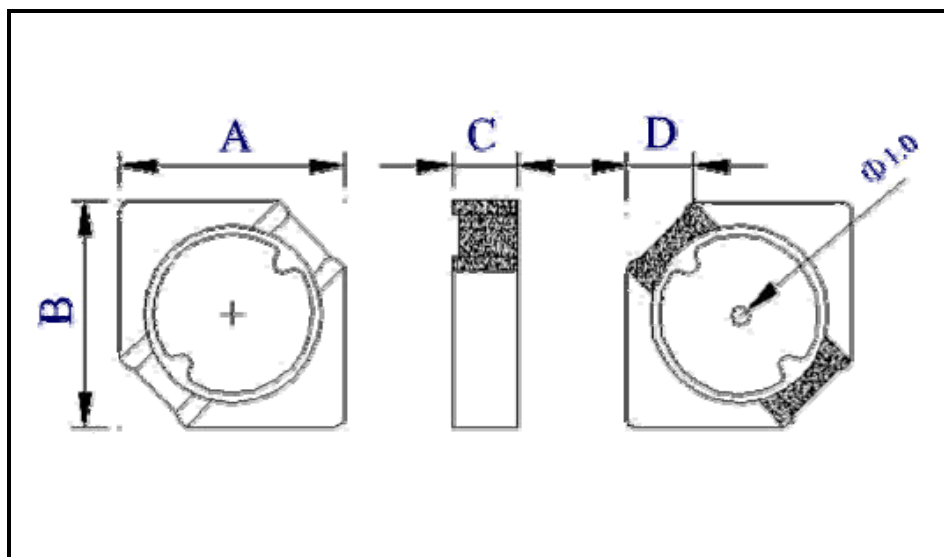
AFTEK PART NO	INDUCTANCE		Q		SRF MHZ MIN	DCR (Ω) MAX	Rated current (mA)MAX
	L(uH)	TEST FREQ.	MIN	TEST FREQ.			
P34E4532 -- 1R0MA	1.0 $\pm$ 20%	1 MHZ	20	1 MHZ	120	0.2	500
- 1R2MA	1.2 $\pm$ 20%	1 MHZ	20	1 MHZ	100	0.2	500
- 1R5KA	1.5 $\pm$ 10%	1 MHZ	20	1 MHZ	85	0.3	500
- 1R8KA	1.8 $\pm$ 10%	1 MHZ	20	1 MHZ	75	0.3	500
- 2R2KA	2.2 $\pm$ 10%	1 MHZ	20	1 MHZ	62	0.3	500
- 2R7KA	2.7 $\pm$ 10%	1 MHZ	20	1 MHZ	53	0.32	500
- 3R3KA	3.3 $\pm$ 10%	1 MHZ	20	1 MHZ	47	1.35	500
- 3R9KA	3.9 $\pm$ 10%	1 MHZ	20	1 MHZ	41	0.38	500
- 4R7KA	4.7 $\pm$ 10%	1 MHZ	30	1 MHZ	38	0.40	500
- 5R6KA	5.6 $\pm$ 10%	1 MHZ	30	1 MHZ	33	0.47	500
- 6R8KA	6.8 $\pm$ 10%	1 MHZ	30	1 MHZ	31	0.50	450
- 8R2KA	8.2 $\pm$ 10%	1 MHZ	30	1 MHZ	27	0.56	450
- 100KA	10 $\pm$ 10%	1 MHZ	35	1 MHZ	23	0.56	400
- 120KA	12 $\pm$ 10%	1 MHZ	35	1 MHZ	21	0.62	380
- 150KA	15 $\pm$ 10%	1 MHZ	35	1 MHZ	19	0.73	360
- 180KA	18 $\pm$ 10%	1 MHZ	35	1 MHZ	17	0.82	340
- 220KA	22 $\pm$ 10%	1 MHZ	35	1 MHZ	15	0.94	320
- 270KA	27 $\pm$ 10%	1 MHZ	35	1 MHZ	14	1.1	300
- 330KA	33 $\pm$ 10%	1 MHZ	35	1 MHZ	12	1.2	270
- 390KA	39 $\pm$ 10%	1 MHZ	35	1 MHZ	11	1.4	240
- 470KA	47 $\pm$ 10%	1 MHZ	35	1 MHZ	10	1.5	220
- 560KA	56 $\pm$ 10%	1 MHZ	35	1 MHZ	9.3	1.7	200
- 680KA	68 $\pm$ 10%	1 MHZ	35	1 MHZ	8.4	1.9	180
- 820KA	82 $\pm$ 10%	1 MHZ	35	1 MHZ	7.5	2.2	170
- 101KA	100 $\pm$ 10%	1 MHZ	40	796 KHZ	6.8	2.5	160
- 121KA	120 $\pm$ 10%	1 MHZ	40	796 KHZ	6.2	3.0	150
- 151KA	150 $\pm$ 10%	1 MHZ	40	796 KHZ	5.5	3.7	130
- 181KA	180 $\pm$ 10%	1 MHZ	40	796 KHZ	5.0	4.5	120
- 221KA	220 $\pm$ 10%	1 MHZ	40	796 KHZ	4.5	5.4	110
- 271KA	270 $\pm$ 10%	1 MHZ	40	796 KHZ	4.0	6.8	100
- 331KA	330 $\pm$ 10%	1 MHZ	40	796 KHZ	3.6	8.2	95
- 391KA	390 $\pm$ 10%	1 MHZ	40	796 KHZ	3.3	9.7	90
- 471KA	470 $\pm$ 10%	1 KHZ	40	796 KHZ	3.0	11.8	80
- 561KA	560 $\pm$ 10%	1 KHZ	40	796 KHZ	2.7	14.5	70
- 680KA	680 $\pm$ 10%	1 KHZ	40	796 KHZ	2.5	17.0	65
- 820KA	820 $\pm$ 10%	1 KHZ	40	796 KHZ	2.2	20.5	60
- 102KA	1000 $\pm$ 10%	1 KHZ	40	252 KHZ	2.0	25.0	50
- 122KA	1200 $\pm$ 10%	1 KHZ	40	252 KHZ	1.8	30.0	45
- 152KA	1500 $\pm$ 10%	1 KHZ	40	252 KHZ	1.6	37.0	40
- 182KA	1800 $\pm$ 10%	1 KHZ	40	252 KHZ	1.5	45.0	35
- 222KA	2200 $\pm$ 10%	1 KHZ	40	252 KHZ	1.3	50.0	30

Specification: < P34E 5750 SERIES >

AFTEK PART NO	INDUCTANCE		SRF MHZ MIN	DCR (Ω) $\pm 40\%$	Rated current (mA) MAX
	L(uH)	TEST FREQ.			
P34E5750 – R12MA	0.12 $\pm 20\%$	1MHZ	450	0.007	6.0
– R27MA	0.27 $\pm 20\%$	1MHZ	300	0.010	5.3
– R47MA	0.47 $\pm 20\%$	1MHZ	200	0.013	4.8
– 1R0MA	1.0 $\pm 20\%$	1MHZ	150	0.019	4.0
– 1R5MA	1.5 $\pm 20\%$	1MHZ	110	0.022	3.7
– 2R2MA	2.2 $\pm 20\%$	1MHZ	80	0.029	3.2
– 3R3MA	3.3 $\pm 20\%$	1MHZ	40	0.036	2.9
– 4R7MA	4.7 $\pm 20\%$	1MHZ	30	0.041	2.7
– 6R8MA	6.8 $\pm 20\%$	1MHZ	25	0.074	2.0
– 100 MA	10 $\pm 20\%$	1MHZ	20	0.093	1.7
– 150 MA	15 $\pm 20\%$	1MHZ	17	0.15	1.4
– 220 MA	22 $\pm 20\%$	1MHZ	15	0.19	1.2
– 330 MA	33 $\pm 20\%$	1MHZ	12	0.32	0.9
– 470 MA	47 $\pm 20\%$	1MHZ	10	0.40	0.8
– 680 MA	68 $\pm 20\%$	1MHZ	7.6	0.67	0.64
– 101 MA	100 $\pm 20\%$	100KHZ	6.5	0.86	0.56
– 151 MA	150 $\pm 20\%$	100KHZ	5.0	1.9	0.42
– 221 MA	220 $\pm 20\%$	100KHZ	4.0	2.4	0.32
– 331 MA	330 $\pm 20\%$	100KHZ	3.1	4.4	0.27
– 471 MA	470 $\pm 20\%$	100KHZ	2.4	5.4	0.24
– 681 MA	680 $\pm 20\%$	100KHZ	1.9	8.1	0.19
– 102 MA	1000 $\pm 20\%$	10KHZ	1.7	10.3	0.15
– 222 MA	2200 $\pm 20\%$	10KHZ	1.2	21.5	0.10
– 472 MA	4700 $\pm 20\%$	10KHZ	0.8	43.6	0.07
– 103 MA	10000 $\pm 20\%$	10KHZ	0.5	100	0.05

SMD POWER INDUCTOR P34T SERIES

Configuration:

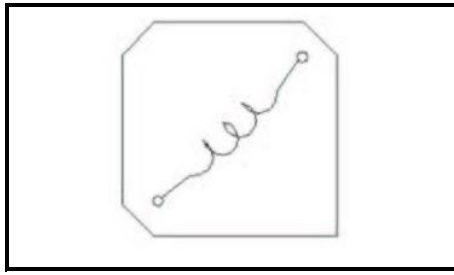


Dimensions:

UNIT : mm

SERIES	A	B	C	D	IND.RANGE
P34T5212	5.2max	5.2max	1.2max	1.8ref	0.47uH~10mH

Schematics:



Specification: < P34T 5212 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	TEST FREQ.	DCR (Ω) $\pm 20\%$	Rated Current (A) MAX
P34T5212 – R47MA	0.47 $\pm 20\%$	1KHz	0.0344	3.86
-1R2MA	1.20 $\pm 20\%$	1KHz	0.0512	2.45
-1R5MA	1.50 $\pm 20\%$	1KHz	0.073	2.08
-2R2MA	2.20 $\pm 20\%$	1KHz	0.105	1.80
-3R3MA	3.30 $\pm 20\%$	1KHz	0.146	1.42
-4R7MA	4.70 $\pm 20\%$	1KHz	0.165	1.29
-6R2MA	6.20 $\pm 20\%$	1KHz	0.238	1.08
-8R2MA	8.20 $\pm 20\%$	1KHz	0.336	0.931
-100MA	10.0 $\pm 20\%$	1KHz	0.398	0.818
-150MA	15.0 $\pm 20\%$	1KHz	0.572	0.692
-220MA	22.0 $\pm 20\%$	1KHz	0.887	0.574
-330MA	33.0 $\pm 20\%$	1KHz	1.300	0.474
-470MA	47.0 $\pm 20\%$	1KHz	1.92	0.391
-680MA	68.0 $\pm 20\%$	1KHz	3.02	0.352
-820MA	82.0 $\pm 20\%$	1KHz	3.30	0.297
-101MA	100 $\pm 20\%$	1KHz	3.70	0.273
-151MA	150 $\pm 20\%$	1KHz	5.54	0.220
-221MA	220 $\pm 20\%$	1KHz	6.66	0.181
-331MA	330 $\pm 20\%$	1KHz	10.15	0.148
-471MA	470 $\pm 20\%$	1KHz	12.53	0.126
-681MA	680 $\pm 20\%$	1KHz	15.82	0.104
-821MA	820 $\pm 20\%$	1KHz	20.90	0.095
-102MA	1000 $\pm 20\%$	1KHz	24.08	0.086

SMD POWER INDUCTOR P34W SERIES

FEATURES

Low profile and small size.

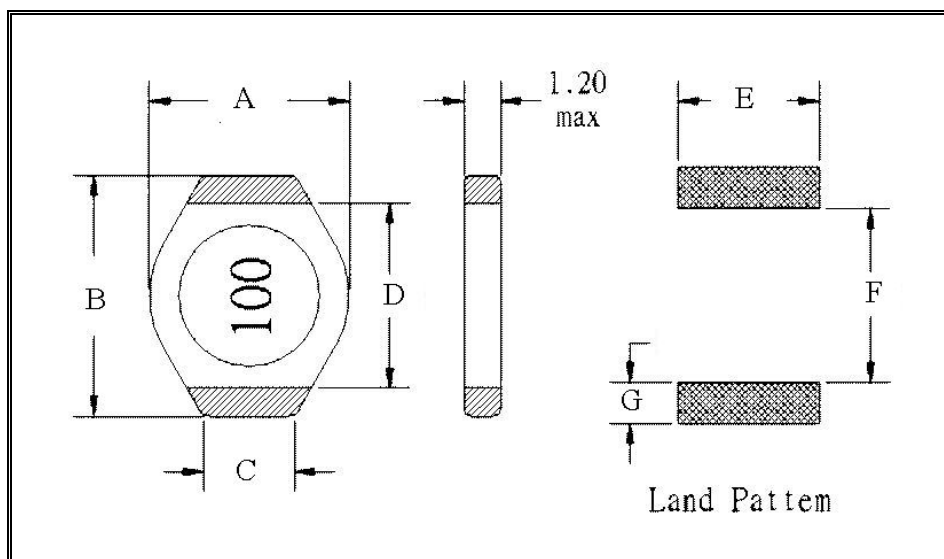
Low DC resistance.

Tape and reel packaging available.

APPLICATIONS

DC to DC converters for LCD panels, Digital camera and PDA.

Configuration:



Dimensions:

UNIT : mm

SERIES	A	B	C	D	E	F	G	IND.RANGE
P34W1704	5.50max	6.60max	2.50	4.90	3.80	4.70	1.10	1.2uH~330uH

Specification: < P34W 1704 SERIES >

AFTEK PART NO	INDUCTANCE (μ H)	DCR (Ω) MAX	Rated Current (A) MAX
P34W1704 – 1R2MA	1.20 $\pm$ 20%	0.08	2.10
-1R5MA	1.50 $\pm$ 20%	0.10	1.90
-2R2MA	2.20 $\pm$ 20%	0.12	1.60
-3R3MA	3.30 $\pm$ 20%	0.16	1.30
-4R7MA	4.70 $\pm$ 20%	0.20	1.10
-6R8MA	6.80 $\pm$ 20%	0.32	0.90
-100MA	10.0 $\pm$ 20%	0.41	0.80
-150MA	15.0 $\pm$ 20%	0.55	0.65
-220MA	22.0 $\pm$ 20%	0.85	0.50
-330MA	33.0 $\pm$ 20%	1.30	0.40
-470MA	47.0 $\pm$ 20%	1.80	0.35
-680MA	68.0 $\pm$ 20%	2.50	0.30
-101MA	100 $\pm$ 20%	3.50	0.25
-151MA	150 $\pm$ 20%	5.00	0.18
-221MA	220 $\pm$ 20%	7.00	0.16
-331MA	330 $\pm$ 20%	15.00	0.13

SMD POWER INDUCTOR P34H SERIES

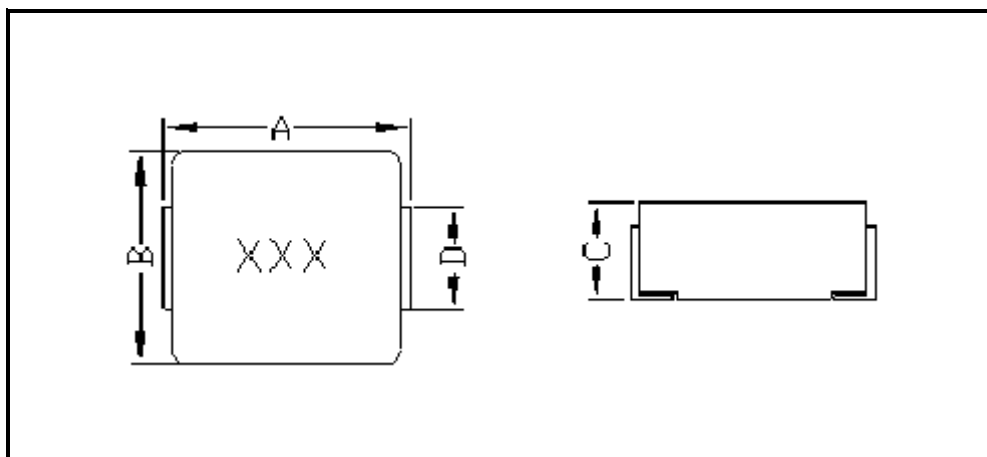
Application:

- ◆ Power supply for VTRS
- ◆ OA equipment
- ◆ LCD televisions
- ◆ Notebook PCs
- ◆ Portable communication equipment
- ◆ DC/DC converters, etc.

Features:

- ◆ Excellent solder-ability and high heat resistance for reflow soldering.
- ◆ For large current circuits due to low DC resistance.
- ◆ Excellent in terminal strength due to its high performances ferrite core material and solder ability.
- ◆ Provided with embossed carrier tape packaging for automatic mounting machines.

Configuration:

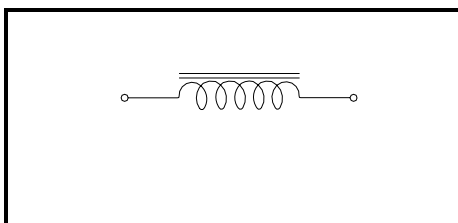


Dimensions:

UNIT : mm

SERIES	A	B	C	D	IND. RANGE
P34H0402	4.45 ±0.25	4.06 ±0.25	1.8 ±0.2	2.0±0.2	0.1μH ~ 10μH
P34B0502	5.7 ±0.3	5.2 ±0.2	1.8 ±0.2	2.5±0.2	0.33μH ~ 10μH
P34B0603	7.3 ±0.5	6.6 ±0.5	3.0 ±0.2	2.8±0.2	0.82μH ~ 10μH

Schematics:

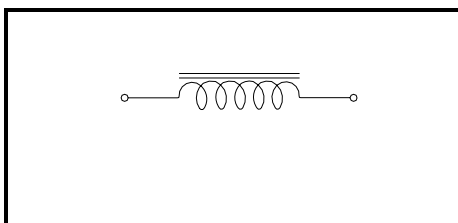


Specification: < P34H Series 0402 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ. (KHz)	DCR (mΩ) MAX	I rms (A)TYP	I sat (A)TYP
P34H0402 – R10MA	0.1 ±20%	100	4.00	12.00	35.00
– R22MA	0.22 ±20%	100	7.30	13.00	24.00
– R33MA	0.33 ±20%	100	8.60	10.00	18.00
– R47MA	0.47 ±20%	100	14.00	8.00	12.00
– 1R0MA	1.00 ±20%	100	27.00	5.00	8.50
– 1R5MA	1.50 ±20%	100	42.00	4.50	7.00
– 2R2MA	2.20 ±20%	100	61.00	4.00	6.00
– 3R3MA	3.30 ±20%	100	76.00	3.50	4.00
– 4R7MA	4.70 ±20%	100	105.00	2.60	3.50
– 5R6MA	5.60 ±20%	100	125.00	2.20	3.00
– 6R8MA	6.80 ±20%	100	175.00	2.10	2.80
– 8R2MA	8.20 ±20%	100	180.00	2.00	2.50
–100MA	10.00 ±20%	100	250.00	1.80	2.30

1. Test frequency : L:100KHz / 1.0V
2. All test data referenced to 25°C ambient.
3. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER
4. Heat Rated Current (Irms) will cause the coil temperature rise $\Delta T=40^{\circ}\text{C}$ without core loss(keep 1min.).
5. Saturation Current (Isat) will cause L0 to drop 30%.(keep quickly).
6. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- 7.Special inquiries besides the above common used types can be met on your requirement.

Schematics:

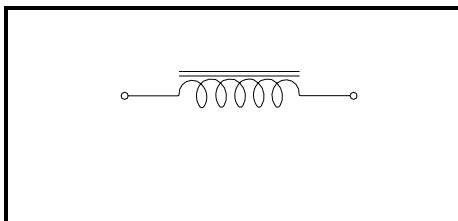


Specification: < P34H Series 0502 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ. (KHz)	DCR (mΩ) MAX	I rms (A)TYP	I sat (A)TYP
P34H0502 – R33MA	0.33 ±20%	100	7.30	12.00	21.30
– R47MA	0.47 ±20%	100	8.60	11.50	18.00
– R68MA	0.68 ±20%	100	12.40	10.00	12.80
– 1R0MA	1.00 ±20%	100	20.00	7.00	11.70
– 1R2MA	1.20 ±20%	100	28.00	6.20	11.00
– 1R5MA	1.50 ±20%	100	30.50	5.50	9.80
– 2R2MA	2.20 ±20%	100	50.00	4.20	9.00
– 3R3MA	3.30 ±20%	100	76.00	3.30	7.30
– 4R7MA	4.70 ±20%	100	116.00	2.80	5.00
– 5R6MA	5.60 ±20%	100	122.00	2.50	4.00
– 6R8MA	6.80 ±20%	100	150.00	2.40	3.80
– 8R2MA	8.20 ±20%	100	171.00	2.30	3.50
–100MA	10.00 ±20%	100	199.00	2.30	3.40

1. Test frequency : L:100KHz / 1.0V
2. All test data referenced to 25°C ambient.
3. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER
4. Heat Rated Current (I_{rms}) will cause the coil temperature rise $\Delta T=40^{\circ}\text{C}$ without core loss(keep 1min.).
5. Saturation Current (I_{sat}) will cause L₀ to drop 30%.(keep quickly).
6. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- 7.Special inquiries besides the above common used types can be met on your requirement.

Schematics:



Specification: < P34H Series 0603 SERIES >

AFTEK PART NO	INDUCTANCE (uH)	TEST FREQ. (KHz)	DCR (mΩ) MAX	I rms (A)TYP	I sat (A)TYP
P34H0603 – R82MA	0.82 ±20%	100	7.80	13.00	24.00
– 1R0MA	1.00 ±20%	100	11.00	9.50	18.00
– 1R5MA	1.50 ±20%	100	17.00	7.70	14.00
– 2R2MA	2.20 ±20%	100	22.00	7.00	14.00
– 3R3MA	3.30 ±20%	100	25.00	6.00	13.50
– 4R7MA	4.70 ±20%	100	32.00	5.50	11.00
–100MA	10.00 ±20%	100	78.00	3.00	6.00

1. Test frequency : L:100KHz / 1.0V
2. All test data referenced to 25°C ambient.
3. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER
4. Heat Rated Current (I_{rms}) will cause the coil temperature rise $\Delta T=40^{\circ}\text{C}$ without core loss(keep 1min.).
5. Saturation Current (I_{sat}) will cause L₀ to drop 30%.(keep quickly).
6. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- 7.Special inquiries besides the above common used types can be met on your requirement.