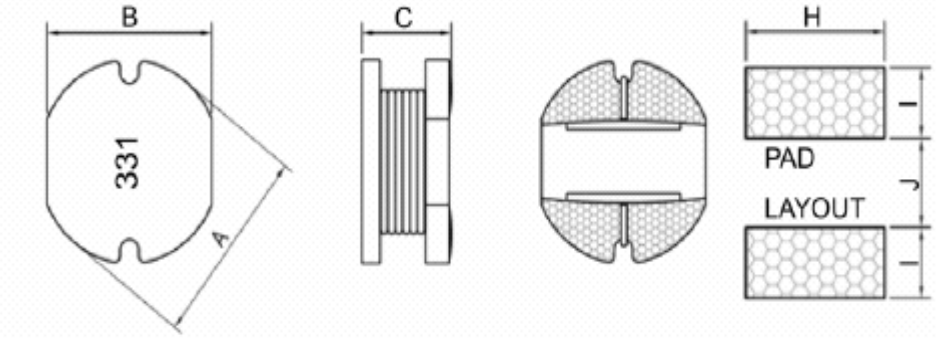
Product Specification

This product is certified to comply with the RoHS Directive 2002/95/EC.

MAGNA Frequency Components

LPUA Series Unshielded Power Inductor

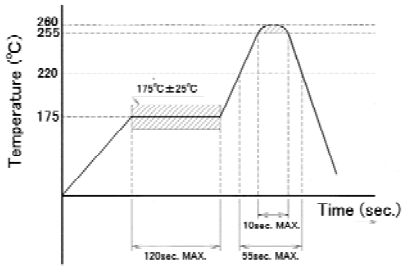
- High current rating
- Low cost



Dimensions

Codes	A	B	C max.	H Ref.	I Ref.	J Ref.	Reel Qty
LPUA0301	3.5±0.3	3.0±0.3	1.4	3.5	1.6	0.8	3000
LPUA0302	3.5±0.3	3.0±0.3	2.4	3.5	1.6	0.8	2000
LPUA0402	4.5±0.3	4.0±0.3	2.9	4.5	1.75	1.5	2000
LPUA0403	4.5±0.3	4.0±0.3	3.5	4.5	1.75	1.5	1500
LPUA0502	5.8±0.3	5.2±0.3	2.8	5.5	2.15	1.7	2000
LPUA0503	5.8±0.3	5.2±0.3	3.5	5.5	2.15	1.7	1500
LPUA0504	5.8±0.3	5.2±0.3	4.85	5.5	2.15	1.7	1500
LPUA0703	7.8±0.3	7.0±0.3	4.0	7.5	3.00	2.0	1000
LPUA0705	7.8±0.3	7.0±0.3	5.5	7.5	3.00	2.0	1000
LPUA1004	10.0±0.4	9.0±0.3	4.5	9.5	3.75	2.5	1000
LPUA1005	10.0±0.4	9.0±0.3	5.8	9.5	3.75	2.5	1000

Reflow Profile



Ordering Code Guide:		
Series Code	Tolerance	Inductance
LPUA0301	N: ±30%	1R0: 1.0uH
	M: ±20%	100: 10.0uH
	L: ±15%	101: 100.0uH
	K±10%	

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MAGNA Frequency Components

LPUA Series Unshielded Power Inductor

Inductance Code	L (uH)	Tolerance	LPUA0301		LPUA0302	
			DCR (Ω) max.	I (A) max.	DCR (Ω) max.	I (A) max.
1R0	1.0	M	0.04	1.40	0.045	2.20
1R5	1.5	M	0.10	1.30	0.055	1.70
2R2	2.2	M	0.24	1.20	0.085	1.36
3R3	3.3	M	0.27	1.00	0.12	1.04
3R9	3.9	M	0.19	0.79	1.13	1.00
4R7	4.7	M	0.40	0.90	0.17	1.00
5R6	5.6	M	0.45	0.80	0.185	0.95
6R8	6.8	M	0.50	0.70	0.20	0.95
8R2	8.2	M	0.65	0.65	0.25	0.90
100	10.0	M	0.75	0.60	0.32	0.76
120	12.0	M	0.85	0.55	0.35	0.685
150	15.0	M	1.20	0.50	0.46	0.635
180	18.0	M	1.30	0.32	0.52	0.525
220	22.0	M	1.50	0.40	0.66	0.500
270	27.0	M	1.50	0.36	0.88	0.405
330	33.0	M	2.80	0.25	0.97	0.380
390	39.0	M	1.88	0.23	1.12	0.355
470	47.0	M	4.00	0.21	1.27	0.330
560	56.0	M	4.50	0.20	1.59	0.290
680	68.0	M	5.00	0.18	2.00	0.260
820	82.0	M	6.50	0.16	2.44	0.230
101	100	M	7.50	0.14	2.85	0.200
121	120	M	-	-	3.40	0.180
151	150	M	-	-	4.47	0.160
181	180	M	-	-	5.11	0.150
221	220	M	14.00	0.13	7.31	0.140
271	270	M	22.00	0.11	8.80	0.100
331	330	M	26.00	0.10	10.19	0.090

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MAGNA Frequency Components

LPUA Series Unshielded Power Inductor

Inductance Code	L (uH)	Tolerance	LPUA0402		LPUA0403	
			DCR (Ω) max.	I (A) max.	DCR (Ω) max.	I (A) max.
1R0	1.0	M	0.057	2.47	0.050	2.70
1R4	1.4	M	-	-	0.056	2.50
1R8	1.8	M	-	-	0.064	2.33
2R2	2.2	M	0.079	1.60	0.072	2.25
2R7	2.7	M	-	-	0.079	2.16
3R3	3.3	M	0.094	1.38	0.086	2.00
3R9	3.9	M	--	-	0.094	1.84
4R7	4.7	M	0.120	1.12	0.109	1.62
5R6	5.6	M	-	-	0.126	1.48
6R8	6.8	M	0.140	0.98	0.131	1.40
8R2	8.2	M	0.150	0.94	0.147	1.26
100	10.0	M	0.195	0.80	0.182	1.04
120	12.0	M	0.210	0.86	0.210	0.97
150	15.0	M	0.330	0.70	0.235	0.85
180	18.0	M	0.350	0.71	0.338	0.74
220	22.0	M	0.486	0.60	0.378	0.68
270	27.0	M	0.540	0.55	0.522	0.62
330	33.0	M	0.640	0.51	0.540	0.56
390	39.0	M	0.800	0.49	0.587	0.52
470	47.0	M	0.950	0.40	0.844	0.44
560	56.0	M	0.960	0.37	0.937	0.42
680	68.0	M	1.350	0.30	1.17	0.37
820	82.0	M	1.240	0.27	1.20	0.34
101	100	M	1.710	0.25	1.52	0.30
121	120	M	1.500	0.24	1.80	0.26
151	150	M	2.530	0.20	2.00	0.21
181	180	M	2.400	0.19	3.20	0.20
221	220	M	4.200	0.17	3.40	0.18
271	270	M	3.500	0.16	3.90	0.17
331	330	M	5.300	0.14	5.30	0.17
391	390	M	6.820	0.13	5.90	0.16
471	470	M	7.780	0.12	6.80	0.16
561	560	M	-	-	8.50	0.14
681	680	M	-	-	10.0	0.13

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Product Specification

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MAGNA Frequency Components

LPUA Series Unshielded Power Inductor

Inductance Code	L (uH)	Tolerance	LPUA0502		LPUA0503		LPUA0504	
			DCR (Ω) max.	I (A) max.	DCR (Ω) max.	I (A) max.	DCR (Ω) max.	I (A) max
1R0	1.0	M	0.05	4.00	0.03	4.50	0.020	5.00
1R5	1.5	M	0.06	3.60	0.03	3.70	0.025	4.50
2R2	2.2	M	0.08	3.00	0.03	3.50	0.035	3.80
2R7	2.7	M	0.08	3.20	0.04	3.20	0.040	3.40
3R3	3.3	M	0.12	2.40	0.05	2.80	0.045	2.50
3R9	3.9	M	0.14	2.00	0.06	2.60	0.050	2.20
4R7	4.7	M	0.15	1.80	0.07	2.50	0.060	2.00
5R6	5.6	M	0.16	1.50	0.08	2.40	0.070	1.82
6R8	6.8	M	0.17	1.40	0.09	2.20	0.080	1.69
8R2	8.2	M	0.20	1.30	0.10	2.00	0.090	1.56
100	10.0	M	0.23	1.10	0.13	1.80	0.100	1.44
120	12.0	M	0.25	1.05	0.16	1.75	0.120	1.40
150	15.0	M	0.30	1.00	0.19	1.50	0.140	1.30
180	18.0	M	0.35	0.90	0.21	1.40	0.150	1.23
220	22.0	M	0.40	0.85	0.28	1.25	0.180	1.11
270	27.0	M	0.50	0.75	0.32	1.20	0.200	0.97
330	33.0	M	0.55	0.70	0.38	1.00	0.230	0.88
390	39.0	M	0.65	0.60	0.42	0.95	0.320	0.80
470	47.0	M	0.75	0.55	0.52	0.88	0.370	0.72
560	56.0	M	0.75	0.50	0.52	0.8	0.420	0.68
680	68.0	M	1.20	0.45	0.68	0.75	0.460	0.61
820	82.0	M	1.40	0.40	0.82	0.65	0.600	0.58
101	100	M	1.75	0.35	1.10	0.60	0.700	0.52
121	120	M	2.00	0.25	1.20	0.58	0.930	0.48
151	150	M	2.60	0.22	1.50	0.43	1.100	0.40
181	180	M	3.70	0.18	1.80	0.41	1.380	0.38
221	220	M	4.00	0.19	2.00	0.38	1.570	0.35
271	270	M	4.30	0.18	2.90	0.35	1.650	0.32
331	330	M	4.30	0.17	3.30	0.28	1.820	0.28
391	390	M	6.00	0.16	3.70	0.26	2.100	0.26
471	470	M	6.70	0.15	4.90	0.20	2.900	0.23
561	560	M	-	-	5.00	0.19	3.300	0.20
681	680	M	-	--	6.30	0.18	4.050	0.19
821	820	M	-	-	6.70	0.15		
102	1000	M	-	-	8.00	0.13		

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MAGNA Frequency Components

LPUA Series Unshielded Power Inductor

Inductance Code	L (uH)	Tolerance	LPUA0703		LPUA0705	
			DCR (Ω) max.	I (A) max.	DCR (Ω) max.	I (A) max.
1R0	1.0	M	0.018	5.50	0.013	5.80
2R2	2.2	M	0.023	5.00	0.023	4.30
3R3	3.3	M	0.025	3.60	0.028	3.80
4R7	4.7	M	0.039	3.10	0.045	2.70
5R6	5.6	M	0.040	2.80	0.048	2.65
6R8	6.8	M	0.050	2.50	0.058	2.50
8R2	8.2	M	0.080	2.00	0.070	2.40
100	10.0	M	0.080	1.44	0.070	2.20
120	12.0	M	0.090	1.39	0.080	1.90
150	15.0	M	0.104	1.24	0.090	1.75
180	18.0	M	0.111	1.12	0.100	1.55
220	22.0	M	0.130	1.07	0.110	1.50
270	27.0	M	0.153	0.94	0.120	1.30
330	33.0	M	0.170	0.85	0.130	1.20
390	39.0	M	0.220	0.74	0.160	1.10
470	47.0	M	0.252	0.68	0.180	1.00
560	56.0	M	0.282	0.64	0.240	0.94
680	68.0	M	0.332	0.59	0.280	0.85
820	82.0	M	0.410	0.54	0.370	0.78
101	100	M	0.481	0.51	0.430	0.72
121	120	M	0.540	0.49	0.470	0.65
151	150	M	0.755	0.40	0.640	0.58
181	180	M	1.022	0.36	0.710	0.51
221	220	M	1.200	0.31	0.960	0.49
271	270	M	1.310	0.29	1.110	0.42
331	330	M	1.500	0.28	1.260	0.40
391	390	M	1.850	0.25	1.770	0.36
471	470	M	2.200	0.22	1.960	0.34
561	560	M	2.660	0.20	2.280	0.32
681	680	M	3.200	0.18	2.600	0.28
821	820	M	3.900	0.16	3.400	0.26
102	1000	M	4.800	0.15	4.200	0.23

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MAGNA Frequency Components

LPUA Series Unshielded Power Inductor

Inductance Code	L (uH)	Tolerance	LPUA1004		LPUA1005	
			DCR (Ω) max.	I (A) max.	DCR (Ω) max.	I (A) max.
1R0	1.0	M	0.012	8.70	-	-
1R2	1.2	M	-	-	0.009	8.63
1R5	1.5	M	0.016	7.48	0.010	8.00
2R2	2.2	M	0.020	5.40	0.016	6.80
2R7	2.7	M	0.024	3.20		
3R3	3.3	M	-	-	0.018	3.05
3R9	3.9	M	0.030	2.80	-	-
4R7	4.7	M	0.038	2.75	0.020	2.90
5R6	5.6	M	0.056	2.70	0.025	4.20
6R8	6.8	M	0.042	2.65	0.040	2.75
8R2	8.2	M	0.048	2.60	0.050	2.7
100	10.0	M	0.053	2.38	0.060	2.6
120	12.0	M	0.061	2.13	0.070	2.45
150	15.0	M	0.070	1.87	0.080	2.27
180	18.0	M	0.081	1.73	0.090	2.15
220	22.0	M	0.090	1.60	0.100	1.95
270	27.0	M	0.100	1.44	0.110	1.76
330	33.0	M	0.120	1.26	0.120	1.50
390	39.0	M	0.151	1.20	0.140	1.37
470	47.0	M	0.170	1.10	0.170	1.28
560	56.0	M	0.200	1.01	0.190	1.17
680	68.0	M	0.245	0.91	0.220	1.11
820	82.0	M	0.300	0.85	0.280	1.00
101	100	M	0.350	0.74	0.350	0.97
121	120	M	0.420	0.69	0.400	0.89
151	150	M	0.544	0.61	0.510	0.78
181	180	M	0.621	0.56	0.630	0.72
221	220	M	0.750	0.53	0.780	0.66
271	270	M	0.960	0.45	0.970	0.57
331	330	M	1.150	0.42	1.200	0.52
391	390	M	1.300	0.38	1.300	0.48
471	470	M	1.550	0.35	1.500	0.42
561	560	M	1.904	0.32	1.900	0.33
681	680	M	2.500	0.30	2.250	0.28
821	820	M	2.800	0.28	2.550	0.24
102	1000	M	3.500	0.26	3.000	0.20

Test frequency: 100kHz

I: DC current at which either the inductance drops 35% from its value with no current or that causes a 40°C temperature rise above 25°C ambient

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