



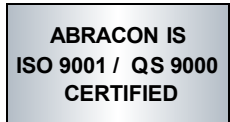
MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

ASPI -0403S, -0703S, -0704S, -1205S, -1207S, -1306S SERIES

STANDARD SPECIFICATIONS

Part Number ² # -XXX	L ^{1,2} (μ H)	DCR Ω (MAX)						I _{DC} ⁴ A (MAX)					
		ASPI 0403S	ASPI 0703S	ASPI 0704S	ASPI 1205S	ASPI 1207S	ASPI 1306S	ASPI 0403S	ASPI 0703S	ASPI 0704S	ASPI 1205S	ASPI 1207S	ASPI 1306S
1R0M	1.0	0.040	-	-	-	-	-	3.0	-	-	-	-	-
1R2M	1.2	-	-	-	-	0.007	-	-	-	-	-	9.80	-
1R3M	1.3	-	-	-	0.012	-	-	-	-	-	8.00	-	-
1R5M	1.5	0.045	-	-	-	-	-	2.8	-	-	-	-	-
2R1M	2.1	-	-	-	0.014	-	-	-	-	-	7.00	-	-
2R2M	2.2	0.050	-	-	-	-	-	1.8	-	-	-	-	-
2R4M	2.4	-	-	-	-	0.012	-	-	-	-	-	8.00	-
3R1M	3.1	-	-	-	0.017	-	-	-	-	-	6.00	-	-
3R3M	3.3	0.055	-	-	-	-	-	1.6	-	-	-	-	-
3R5M	3.5	-	-	-	-	0.014	-	-	-	-	-	7.50	-
4R4M	4.4	-	-	-	0.020	-	-	-	-	-	5.00	-	-
4R7M	4.7	0.060	-	-	0.016	-	-	1.4	-	-	6.80	-	-
5R8M	5.8	-	-	-	0.021	-	-	-	-	-	4.40	-	-
6R1M	6.1	-	-	-	-	0.018	-	-	-	-	-	6.60	-
6R8M	6.8	0.065	-	-	-	-	-	1.2	-	-	-	-	-
7R6M	7.6	-	-	-	0.024	0.020	-	-	-	-	4.20	5.90	-
100M	10	0.075	0.072	0.049	0.025	0.022	0.04	1.0	1.68	1.84	4.00	5.40	3.90
120M	12	-	0.098	0.058	0.027	0.025	-	-	1.52	1.71	3.50	4.90	-
150M	15	0.090	0.13	0.081	0.030	0.027	0.05	0.80	1.33	1.47	3.30	4.50	3.40
180M	18	-	0.14	0.091	0.034	0.040	-	-	1.20	1.31	3.00	3.90	-
220M	22	0.11	0.19	0.11	0.036	0.044	0.06	0.70	1.07	1.23	2.80	3.60	3.10
270M	27	-	0.21	0.15	0.051	0.046	-	-	0.96	1.12	2.30	3.40	-
330M	33	0.19	0.24	0.17	0.057	0.065	0.08	0.60	0.91	0.96	2.10	3.00	2.80
390M	39	-	0.32	0.23	0.068	0.073	-	-	0.77	0.91	2.00	2.75	-
470M	47	0.23	0.36	0.26	0.075	0.100	0.10	0.50	0.76	0.88	1.80	2.50	2.40
560M	56	-	0.47	0.35	0.11	-	-	-	0.68	0.75	1.70	-	-
680M	68	0.29	0.52	0.38	0.12	-	0.14	0.40	0.61	0.69	1.50	-	2.00
820M	82	-	0.69	0.43	0.14	-	-	-	0.57	0.61	1.40	-	-
101M	100	0.48	0.79	0.61	0.16	-	0.21	0.30	0.50	0.60	1.30	-	1.70
121M	120	-	0.89	0.66	0.17	-	-	-	0.49	0.52	1.10	-	-
151M	150	0.59	1.27	0.88	0.23	-	0.03	0.26	0.43	0.46	1.00	-	1.30
181M	180	-	1.45	0.98	0.29	-	-	-	0.39	0.42	0.90	-	-
221M	220	0.77	1.65	1.17	0.40	-	0.47	0.22	0.35	0.36	0.80	-	1.10
271M	270	-	2.31	1.64	0.46	-	-	-	0.32	0.34	0.75	-	-
331M	330	1.40	2.62	1.86	0.51	-	0.78	0.20	0.28	0.32	0.68	-	0.86
391M	390	-	2.94	2.85	0.69	-	-	-	0.26	0.29	0.65	-	-
471M	470	1.80	4.18	3.01	0.77	-	1.08	0.19	0.24	0.26	0.58	-	0.73
561M	560	-	4.67	3.62	0.86	-	-	-	0.22	0.23	0.54	-	-
681M	680	2.20	5.73	4.63	1.20	-	1.40	0.18	0.19	0.22	0.48	-	0.64
821M	820	-	6.54	5.20	1.34	-	-	-	0.18	0.20	0.43	-	-
102M	1000	3.40	9.44	6.00	1.53	-	2.01	0.15	0.16	0.18	0.40	-	0.53
152M	1500	4.20	-	-	-	-	-	-	0.12	-	-	-	-
222M	2200	8.50	-	-	-	-	-	-	0.08	-	-	-	-
472M	4700	13.90	-	-	-	-	-	-	0.06	-	-	-	-
682M	6800	25.00	-	-	-	-	-	-	0.04	-	-	-	-
103M	10000	32.80	-	-	-	-	-	-	0.02	-	-	-	-

See facing page for notes



MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

ASPI -0403S, -0703S, -0704S, -1205S, - 1207S, -1306S SERIES



Part Series	PHYSICAL CHARACTERISTICS ⁶
ASPI-0403S-XXX	
ASPI-0703S-XXX	
ASPI-0704S-XXX	
ASPI-1205S-XXX	
ASPI-1207S-XXX	
ASPI-1306S-XXX	

NOTES:

1. Inductance (L) measured @ 100KHz, 100mV with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Operating temperature: -55°C to 85°C
4. Inductance drops by 10% at max rated current
5. Marking per EIA standard color code in μH
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Specifications subject to change without notice

**ABRACON IS
ISO 9001 / QS 9000
CERTIFIED**

29 Journey • Aliso Viejo, CA 92656 • USA
(949) 448-7070 • Fax: (949) 448-8484
E-MAIL: abinfo@abracon.com • INTERNET ADDRESS: www.abracon.com





LOW PROFILE SHIELDED SMD POWER INDUCTORS

ASPI -104S, -105S

STANDARD SPECIFICATIONS

Part Number ²	L ^{1,2} (μH)	DCR Ω (MAX)	I _{dc} ⁴ A (MAX)
ASPI-104S-1R0	1.0	0.006	13.6
ASPI-104S-1R5	1.5	0.008	10.0
ASPI-104S-2R5	2.5	0.010	7.50
ASPI-104S-2R8	2.8	0.011	7.30
ASPI-104S-3R8	3.8	0.013	6.00
ASPI-104S-5R2	5.2	0.022	5.50
ASPI-104S-7R0	7.0	0.027	4.80
ASPI-104S-100	10	0.035	4.40
ASPI-104S-150	15	0.050	3.60
ASPI-104S-220	22	0.073	2.90
ASPI-104S-330	33	0.093	2.30
ASPI-104S-470	47	0.093	2.30
ASPI-104S-680	68	0.213	1.50
ASPI-104S-101	100	0.304	1.35
ASPI-104S-151	150	0.506	1.15
ASPI-104S-221	220	0.756	0.92
ASPI-104S-331	330	1.090	0.70

Part Number ²	L ^{1,2} (μH)	DCR Ω (MAX)	I _{dc} ⁴ A (MAX)
ASPI-105S-100	10	0.050	2.40
ASPI-105S-150	15	0.061	2.00
ASPI-105S-220	22	0.094	1.65
ASPI-105S-330	33	0.15	1.35
ASPI-105S-470	47	0.21	1.10
ASPI-105S-680	68	0.26	0.93
ASPI-105S-101	100	0.41	0.76
ASPI-105S-151	150	0.64	0.63
ASPI-105S-221	220	0.96	0.52
ASPI-105S-331	330	1.37	0.43
ASPI-105S-471	470	1.74	0.36

NOTES:

1. Inductance (L) measured @ 100 KHz, 0.1V_{RMS}
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Operating temperature: -40°C to 85°C
4. Inductance drops by 10%
5. Dimensions: inches / mm; see spec sheet for tolerance limits
6. Specifications subject to change without notice

PHYSICAL CHARACTERISTICS⁵

