POWER & ENERGY
AUTOMOTIVE INDUCTORS

OVERVIEW

The collection of inductors range in package sizes and materials to meet the variety of power, inductance and operating temperature requirements. Each series demonstrates EMI shielding features to prevent interference and disruption to neighboring circuitry. This selection of inductors can service most high reliability DC/DC conversion topologies with superior power densities and efficiencies.

INDUCTOR TYPES

RESIN SHIELDED

- Operating temperature up to +125°C
- High inductance up to 470µH
- Resin shielded

ROUND WIRE METAL ALLOY

- High operating temperature up to +155°C
- DCR optimized with round wire
- Wide range of package sizes for variety of applications
- Highly affective shielding through molded construction

ROUND WIRE CARBONYL POWDER

- Operating temperature up to +125°C
- Saturation current optimized with round wire
- Wide range of package sizes for variety of applications
- Highly affective shielding through molded construction

FLAT WIRE

- Highest current rating inductor type in the market
- Lowest DCR inductor type in the market
- Features flat wire construction for high performance
- Highly affective shielding through molded construction

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PRODUCT LINE UP

SERIES	INDUCTANCE (µH)	CURRENT RATING (A)	DCR (mΩ)	RATED CURRENT (A) @ 1µH	DCR (mΩ) @ 1µH	OPERATING TEMPERATURE	DIMENSIONS (mm) L	W	H
RESIN SHIELDED									
ASPIAIG-S4035	1.0-150	0.5-4.5	24-2280	4.5	24.0	-40°C to +125°C	4.0	4.0	3.5
ASPIAIG-S6055	3.3-330	0.6-4.6	26-1603	4.6	26	-40°C to +125°C	6.0	6.0	5.5
ASPIAIG-S8050	1.0-470	0.6-7.2	10-1540	7.2	10.0	-40°C to +125°C	8.0	8.0	5.0
ROUND WIRE METAL ALLOY									
AMDLA3010Q	0.15-10	0.9-8	12-430	2.8	48.0	-55°C to +125°C	3.4	3.0	1.0
AMDLA3020Q	0.22-10	1.3-10	10-260	5.0	30.0	-55°C to +125°C	3.4	3.0	2.0
AMDLA4010Q	0.22-10	1.1-11	12-312	4.2	42.0	-55°C to +125°C	4.4	4.0	1.0
AMDLA4012Q	0.33-4.7	2.2-10	14.5-143	5.2	43.0	-55°C to +125°C	4.4	4.0	1.2
AMDLA4530Q	0.1-4.7	4.0-32	2.1-52	8.5	13.8	-55°C to +155°C	4.9	4.7	3.0
AMDLA7030Q	0.15-33	1.8-25	2.1-258	11.0	7.4	-55°C to +155°C	7.3	6.6	3.0
AMDLA1004Q	0.15-100	2.0-44	0.6-310	20.0	3.3	-55°C to +155°C	11.0	10.0	4.0
AMDLA1306Q	0.1-100	3.8-60	0.2-161	29.0	1.8	-55°C to +155°C	13.5	12.6	6.5
AMDLA1707Q	0.47-82	6.5-60	0.9-83	46.0	1.3	-55°C to +125°C	17.8	16.9	7.0
AMDLA2213Q	1.5-100	7.5-48	1.1-40	48.0	1.1	-55°C to +155°C	23.5	22.0	13.0
ROUND WIRE CARBONYL POWDER									
AMPLA4012Q	0.1-22	0.8-11.5	5.5-1050	4.0	47.0	-55°C to +125°C	4.5	4.1	1.2
AMPLA4020Q	0.1-22	1.2-12	4.0-500	5.0	27.0	-55°C to +125°C	4.5	4.1	2.0
AMPLA5030Q	0.15-22	1.7-18	2.7-250	7.0	14.0	-55°C to +125°C	5.7	5.2	3.0
AMPLA7012Q	0.1-10	1.8-16	4.0-290	6.0	30.0	-55°C to +125°C	7.0	6.6	1.2
AMPLA7030Q	0.1-47	1.8-32.5	1.7-363	11.0	10.0	-55°C to +125°C	7.3	6.6	3.0
AMPLA7050Q	0.4-22	2.5-23	3.7-170	15.0	6.5	-55°C to +125°C	7.3	6.6	5.0
ASPIAIG-F1040	0.15-82	1.5-43	0.6-320	18.0	3.3	-55°C to +125°C	11.0	10.0	4.0
ASPIAIG-F1265	0.15-47	6.5-55	0.6-90	30.0	2.3	-55°C to +125°C	13.5	12.5	6.5
AMPLA1707Q	0.45-100	5.3-62	0.9-118	52.0	2.0	-55°C to +125°C	17.6	16.9	7.0
FLAT WIRE									
ASPIAIG-F4020	0.1-2.2	5.6-18	2.4-38.7	9.6	14.6	-40°C to +125°C	4.1	4.1	2.0
ASPIAIG-FLR4020	0.47-4.7	3.5-12.5	6.8-57.2	8.0	11.7	-40°C to +125°C	4.1	4.1	2.0
ASPIAIG-Q4020	0.1-2.2	5.6-18	2.4-38.7	9.6	14.6	-55°C to +155°C	4.1	4.1	2.0
ASPIAIG-QLR4020	0.47-4.7	3.5-12.5	6.8-57.2	8.0	11.7	-55°C to +155°C	4.1	4.1	2.0
ASPIAIG-F5020	0.15-1.5	8.8-18.8	4.6-18.7	10.5	13.8	-40°C to +125°C	5.5	5.3	2.0
ASPIAIG-F5030	0.15-4.7	5.9-22.2	2.3-36.3	12.2	7.6	-40°C to +125°C	5.5	5.3	3.0
ASPIAIG-F6030	0.18-4.5	7.0-32	1.7-25.3	18.0	6.1	-40°C to +125°C	6.6	6.4	3.0
ASPIAIG-F6050	1.0-4.7	8.0-18	4.5-18.4	18.0	4.5	-40°C to +125°C	6.6	6.4	5.0
ASPIAIG-F7020	0.27-1	11-21	3.5-10.8	11.0	10.8	-40°C to +125°C	7.8	7.6	2.0
ASPIAIG-F7030	0.6-8.2	5.9-23	3.2-48.73	21.8	5.0	-40°C to +125°C	7.8	7.6	3.0