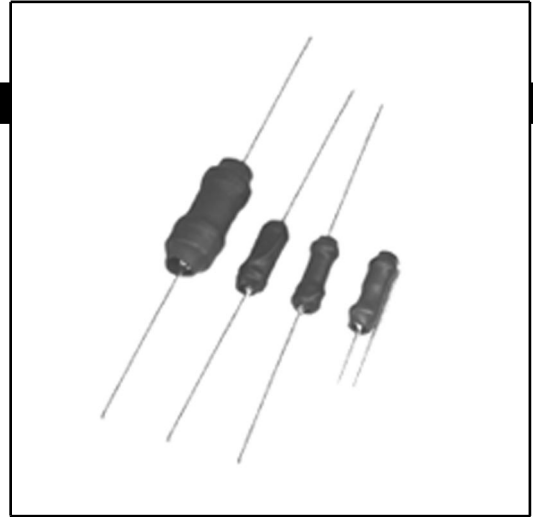


LA Switchmode Inductors Axial Lead

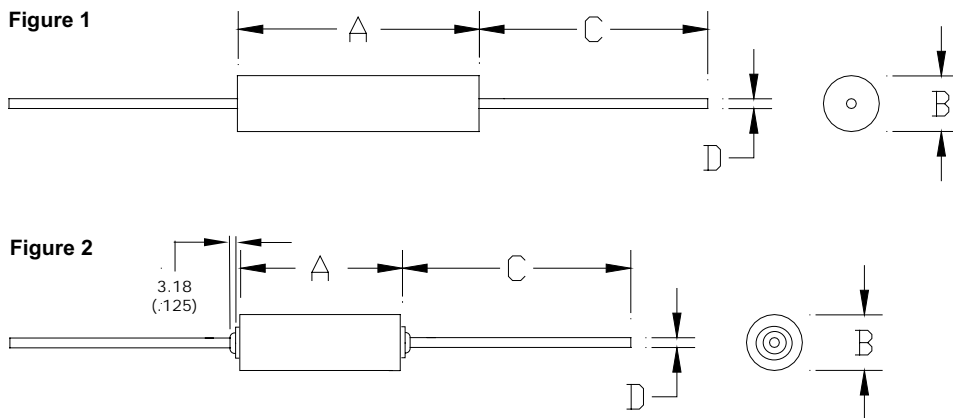


Features:

- High DC current bias capability
- 125° rating (ambient plus rise)
- Used for output and EMI inductor applications
- Wide range of values in standard packages

How to choose your model:

- 1) Calculate the energy storage needed based on inductance and current
- 2) No de-rating needed for ambients up to 85° C



Precision Model Number	Figure Number	Data on Page		A MAX	B MAX	C MIN	D DIA
LA-18070-xxxx	1	2	mm in	17.8 .700	6.86 .270	31.7 1.25	.810 .032
LA-23120-xxxx	1	3	mm in	22.9 .900	11.7 .460	31.7 1.25	.810 .032
LA-10000-xxxx	2	4	mm in	Note 1	Note 1	28.5 1.12	.810 .032
LA-20000-xxxx	2	4	mm in	Note 1	Note 1	28.5 1.12	.810 .032
LA-30000-xxxx	2	4	mm in	Note 1	Note 1	28.5 1.12	.810 .032
LA-50000-xxxx	2	4	mm in	Note 1	Note 1	28.5 1.12	1.02 .040

Note 1: See electrical tables on following pages for dimensions

LA Switchmode Inductors Axial Lead

Precision Model Number	Figure Number	Inductance @ 1kHz +/- 15% [uH]	DC Resistance [Ohms Max]	Rated Current [Amps]	Typical Saturation Current [Amps] (note 1)	Energy Storage [uJoules] (note 2)	Self Resonant Frequency [MHz]
LA-18070-01R0	1	1.0	0.009	5.3	7.0	13.6	*
LA-18070-01R2	1	1.2	0.010	5.0	6.4	14.6	*
LA-18070-01R5	1	1.5	0.011	4.8	5.7	16.8	*
LA-18070-01R8	1	1.8	0.012	4.6	5.2	18.5	*
LA-18070-02R2	1	2.2	0.013	4.4	4.7	20.4	*
LA-18070-02R7	1	2.7	0.014	4.2	4.3	22.6	*
LA-18070-03R3	1	3.3	0.016	4.0	3.9	23.8	*
LA-18070-03R9	1	3.9	0.017	3.8	3.6	24.0	38
LA-18070-04R7	1	4.7	0.022	3.4	3.3	24.3	26
LA-18070-05R6	1	5.6	0.024	3.2	3.0	23.9	26
LA-18070-06R8	1	6.8	0.026	3.1	2.7	23.6	25
LA-18070-08R2	1	8.2	0.028	3.0	2.5	24.4	22
LA-18070-0100	1	10	0.033	2.8	2.3	25.1	17
LA-18070-0120	1	12	0.037	2.6	2.1	25.1	16
LA-18070-0150	1	15	0.040	2.5	1.9	25.7	12
LA-18070-0180	1	18	0.044	2.4	1.7	24.7	11
LA-18070-0220	1	22	0.050	2.2	1.5	23.5	10
LA-18070-0270	1	27	0.070	1.9	1.4	25.1	7
LA-18070-0330	1	33	0.075	1.8	1.3	26.5	7
LA-18070-0390	1	39	0.084	1.7	1.2	26.7	7
LA-18070-0470	1	47	0.104	1.6	1.1	27.0	6
LA-18070-0560	1	56	0.130	1.4	1.0	26.6	6
LA-18070-0680	1	68	0.145	1.3	0.88	25.0	5
LA-18070-0820	1	82	0.152	1.3	0.80	25.0	4
LA-18070-0101	1	100	0.208	1.1	0.73	25.3	3
LA-18070-0121	1	120	0.283	0.94	0.66	24.9	*
LA-18070-0151	1	150	0.330	0.87	0.60	25.7	*
LA-18070-0181	1	180	0.362	0.83	0.54	24.9	*
LA-18070-0221	1	220	0.505	0.70	0.49	25.1	*
LA-18070-0271	1	270	0.557	0.67	0.45	26.0	2
LA-18070-0331	1	330	0.650	0.62	0.40	25.1	*
LA-18070-0391	1	390	0.77	0.57	0.37	25.4	*
LA-18070-0471	1	470	1.03	0.49	0.34	25.8	*
LA-18070-0561	1	560	1.14	0.47	0.31	25.6	1
LA-18070-0681	1	680	1.50	0.41	0.28	25.3	*
LA-18070-0821	1	820	1.98	0.36	0.26	26.3	*
LA-18070-0102	1	1000	2.30	0.33	0.23	25.1	*
LA-18070-0122	1	1200	2.55	0.31	0.21	25.1	*
LA-18070-0152	1	1500	3.00	0.29	0.19	25.7	0.85
LA-18070-0182	1	1800	4.00	0.25	0.18	27.7	*
LA-18070-0222	1	2200	4.40	0.24	0.16	26.8	0.65
LA-18070-0272	1	2700	5.80	0.21	0.14	25.1	*
LA-18070-0332	1	3300	6.56	0.20	0.13	26.5	0.60
LA-18070-0392	1	3900	8.63	0.17	0.12	26.7	*
LA-18070-0472	1	4700	10.1	0.16	0.11	27.0	0.50
LA-18070-0562	1	5600	11.2	0.15	0.10	26.6	*
LA-18070-0682	1	6800	15.0	0.13	0.09	26.2	0.40
LA-18070-0822	1	8200	20.8	0.11	0.08	25.0	0.35
LA-18070-0103	1	10000	23.4	0.10	0.08	26.0	0.30
LA-18070-0123	1	12000	26.0	0.10	0.07	27.9	0.25
LA-18070-0153	1	15000	36.0	0.08	0.06	25.7	*
LA-18070-0183	1	18000	40.0	0.08	0.06	26.0	*

Note 1: DC current where inductance drops 5% below initial value

Note 2: Energy Storage is calculated using the rated current or saturation current, whichever is less

* Information not available

Electrical Specifications: Core: High Resistivity Ferrite; Dielectric Rating: 2500V RMS between winding and flame-retardant tubing
Temperature Rating: Storage: -55° C to +125° C; Operating: -55° C to +85° C

LA Switchmode Inductors Axial Lead

Precision Model Number	Figure Number	Inductance @ 1kHz +/- 15% [uH] (note 1)	DC Resistance [Ohms Max]	Rated Current [Amps]	Typical Saturation Current [Amps] (note 2)	Energy Storage [uJoules] (note 3)	Self Resonant Frequency [MHz]
LA-23120-03R9	1	3.9	0.007	4.0	8.20	30.6	34
LA-23120-04R7	1	4.7	0.008	4.0	7.50	36.8	31
LA-23120-05R6	1	5.6	0.011	4.0	6.90	43.5	29
LA-23120-06R8	1	6.8	0.011	4.0	6.30	52.8	26
LA-23120-08R2	1	8.2	0.013	4.0	5.70	63.6	23
LA-23120-0100	1	10	0.016	4.0	5.20	76.8	20
LA-23120-0120	1	12	0.018	4.0	4.70	92.2	17
LA-23120-0150	1	15	0.020	4.0	4.30	114	14
LA-23120-0180	1	18	0.022	4.0	3.90	130	11
LA-23120-0220	1	22	0.024	4.0	3.50	128	10
LA-23120-0270	1	27	0.025	4.0	3.20	131	9
LA-23120-0330	1	33	0.028	4.0	2.90	132	*
LA-23120-0390	1	39	0.031	4.0	2.70	135	8
LA-23120-0470	1	47	0.034	4.0	2.50	140	7
LA-23120-0560	1	56	0.043	3.2	2.30	141	6
LA-23120-0680	1	68	0.059	2.5	2.10	142	5
LA-23120-0820	1	82	0.066	2.0	1.90	141	4
LA-23120-0101	1	100	0.084	1.6	1.70	137	3
LA-23120-0121	1	120	0.113	1.6	1.60	146	*
LA-23120-0151	1	150	0.129	1.6	1.40	140	*
LA-23120-0181	1	180	0.150	1.6	1.30	144	2
LA-23120-0221	1	220	0.162	1.6	1.20	150	*
LA-23120-0271	1	270	0.226	1.6	1.10	155	*
LA-23120-0331	1	330	0.257	1.6	0.95	141	*
LA-23120-0391	1	390	0.288	1.6	0.88	143	*
LA-23120-0471	1	470	0.393	1.2	0.80	143	1
LA-23120-0561	1	560	0.504	1.0	0.74	146	*
LA-23120-0681	1	680	0.570	1.0	0.67	145	*
LA-23120-0821	1	820	0.643	0.80	0.61	145	*
LA-23120-0102	1	1000	0.844	0.80	0.56	149	*
LA-23120-0122	1	1200	0.977	0.60	0.51	148	*
LA-23120-0152	1	1500	1.18	0.60	0.46	151	0.75
LA-23120-0182	1	1800	1.50	0.60	0.42	151	*
LA-23120-0222	1	2200	1.76	0.50	0.38	151	0.70
LA-23120-0272	1	2700	2.13	0.40	0.34	148	0.65
LA-23120-0332	1	3300	2.53	0.40	0.31	151	0.60
LA-23120-0392	1	3900	2.84	0.40	0.29	156	0.55
LA-23120-0472	1	4700	3.79	0.40	0.26	151	0.50
LA-23120-0562	1	5600	4.24	0.32	0.24	153	0.40
LA-23120-0682	1	6800	5.75	0.25	0.22	156	0.35
LA-23120-0822	1	8200	6.44	0.25	0.20	156	0.30
LA-23120-0103	1	10000	7.30	0.25	0.18	154	*
LA-23120-0123	1	12000	9.34	0.20	0.17	160	*
LA-23120-0153	1	15000	10.7	0.20	0.15	160	*
LA-23120-0183	1	18000	14.8	0.16	0.14	160	0.20
LA-23120-0223	1	22000	18.0	0.13	0.12	150	*
LA-23120-0273	1	27000	22.7	0.13	0.11	155	0.15
LA-23120-0333	1	33000	25.7	0.13	0.10	157	*
LA-23120-0393	1	39000	29.7	0.10	0.09	155	*
LA-23120-0473	1	47000	33.7	0.10	0.09	160	0.10
LA-23120-0563	1	56000	38.0	0.10	0.08	160	*
LA-23120-0683	1	68000	52.8	0.08	0.07	160	*
LA-23120-0823	1	82000	67.3	0.07	0.07	160	*
LA-23120-0104	1	100000	76.0	0.07	0.06	160	*

Note 1: DC current where inductance drops 5% below initial value

Note 2: Energy Storage is calculated using the rated current or saturation current, whichever is less

* Information not available

Electrical Specifications: Core: High Resistivity Ferrite; Dielectric Rating: 2500V RMS between winding and flame-retardant tubing
Temperature Rating: Storage: -55° C to +125° C; Operating: -55° C to +85° C

LA Switchmode Inductors Axial Lead

Precision Model Number	Figure Number	Inductance @ 1kHz +/- 10% [uH]	DC Resistance [Ohms Max]	Rated Current [Amps]	Energy Storage [uJoules] (note 1)	"A" MAX		"B" MAX	
						[mm]	[in]	[mm]	[in]
LA-10000-0500	2	50	0.120	2.5	156	20.32	0.800	12.07	0.475
LA-10000-0101	2	100	0.160	2.1	221	20.32	0.800	12.07	0.475
LA-10000-0251	2	250	0.280	1.8	405	26.67	1.050	12.07	0.475
LA-10000-0501	2	500	0.420	1.6	640	26.67	1.050	13.97	0.550
LA-10000-0102	2	1000	0.600	1.4	980	29.85	1.175	13.97	0.550

Precision Model Number	Figure Number	Inductance @ 1kHz +/- 10% [uH]	DC Resistance [Ohms Max]	Rated Current [Amps]	Energy Storage [uJoules] (note 1)	"A" MAX		"B" MAX	
						[mm]	[in]	[mm]	[in]
LA-20000-0270	2	27	0.060	3.7	185	20.32	0.800	12.70	0.500
LA-20000-0500	2	50	0.085	3.1	240	20.32	0.800	12.70	0.500
LA-20000-0101	2	100	0.120	2.7	365	23.37	0.920	12.70	0.500
LA-20000-0251	2	250	0.200	2.4	720	23.37	0.920	15.24	0.600
LA-20000-0501	2	500	0.320	2.3	1320	26.67	1.050	19.05	0.750

Precision Model Number	Figure Number	Inductance @ 1kHz +/- 10% [uH]	DC Resistance [Ohms Max]	Rated Current [Amps]	Energy Storage [uJoules] (note 1)	"A" MAX		"B" MAX	
						[mm]	[in]	[mm]	[in]
LA-30000-05R0	2	5	0.015	6.8	116	20.32	0.800	12.07	0.475
LA-30000-0100	2	10	0.021	6.1	186	23.37	0.920	12.07	0.475
LA-30000-0270	2	27	0.040	4.8	311	20.32	0.800	13.97	0.550
LA-30000-0500	2	50	0.050	4.3	462	23.37	0.920	13.97	0.550
LA-30000-0101	2	100	0.070	4.2	882	29.85	1.175	13.97	0.550

Precision Model Number	Figure Number	Inductance @ 1kHz +/- 10% [uH]	DC Resistance [Ohms Max]	Rated Current [Amps]	Energy Storage [uJoules] (note 1)	"A" MAX		"B" MAX	
						[mm]	[in]	[mm]	[in]
LA-50000-05R0	2	5	0.010	9.3	216	26.67	1.050	12.07	0.475
LA-50000-0100	2	10	0.015	8.3	344	26.67	1.050	12.07	0.475
LA-50000-0270	2	27	0.030	6.5	570	26.67	1.050	17.78	0.700
LA-50000-0500	2	50	0.040	6.1	930	26.67	1.050	17.78	0.700
LA-50000-0101	2	100	0.060	5.9	1740	33.02	1.300	17.78	0.700

Note 1: Energy Storage is calculated using the rated current

Electrical Specifications: Core: High Resistivity Ferrite; Dielectric Rating: 2500V RMS between winding and flame-retardant tubing
Temperature Rating: Storage: -55° C to +125° C; Operating: -55° C to +85° C