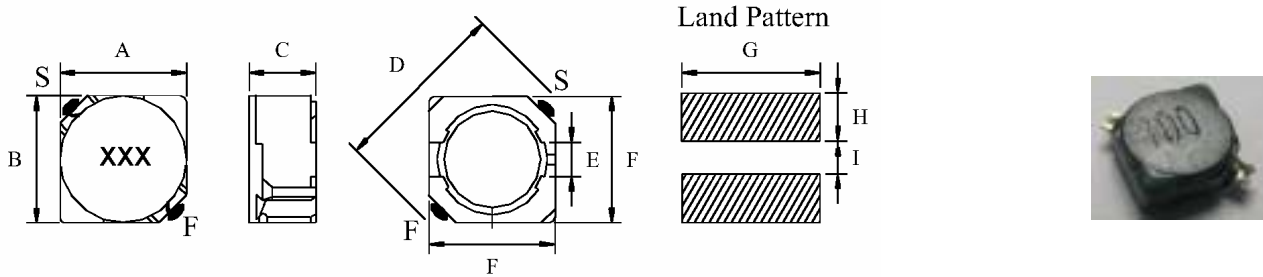


ERH 4D18 / 4D28 / 5D18 / 5D28 / 6D18/6D28 / 6D38 SERIES (SMT POWER INDUCTORS WITH SHIELD)

Dimensions (unit:mm)



TYPE	L range(uH)	I range(A)	A max	B max	C max	D max	E ref.	F ref.	G	H	I
ERH4D18-XXXX	1.0uH 180uH	0.14A 1.72A	5.0	5.0	2.0	6.9	1.5	4.5	5.3	1.9	1.5
ERH4D28-XXXX	1.2uH 330uH	0.14A 2.56A	5.0	5.0	3.0	6.9	1.5	4.5	5.3	1.9	1.5
ERH5D18-XXXX	1.0uH 270uH	0.21A 3.00A	6.0	6.0	2.0	8.2	2.0	5.5	6.3	2.15	2.0
ERH5D28-XXXX	1.0uH 560uH	0.18A 3.00A	6.0	6.0	3.0	8.2	2.0	5.5	6.3	2.15	2.0
ERH6D18-XXXX	6.8uH	2.20A	6.7	6.7	2.0	9.5	2.0	6.5	7.3	2.65	2.0
ERH6D28-XXXX	2.6uH 100uH	0.54A 3.20A	7.0	7.0	3.0	9.5	2.0	6.5	7.3	2.65	2.0
ERH6D38-XXXX	1.5uH 180uH	0.65A 3.80A	7.0	7.0	4.0	9.5	2.0	6.5	7.3	2.65	2.0

Specifications for ERH4D18 Series

PART NUMBER	INDUCTANCE (uH)	TEST FREQ. (KHz)	RDC (Ω) (Max)	Rated current (A)(Max)	Marking
ERH4D18-1R0	1.0	100	0.045	1.72	1R0
ERH4D18-2R2	2.2	100	0.075	1.32	2R2
ERH4D18-2R7	2.7	100	0.105	1.28	2R7
ERH4D18-3R3	3.3	100	0.110	1.04	3R3
ERH4D18-3R9	3.9	100	0.155	0.88	3R9
ERH4D18-4R7	4.7	100	0.162	0.84	4R7
ERH4D18-5R6	5.6	100	0.170	0.80	5R6
ERH4D18-6R8	6.8	100	0.200	0.76	6R8
ERH4D18-8R2	8.2	100	0.245	0.68	8R2
ERH4D18-100	10	100	0.200	0.61	100
ERH4D18-120	12	100	0.210	0.56	120
ERH4D18-150	15	100	0.240	0.50	150



ERH4D18-180	18	100	0.338	0.48	180
ERH4D18-220	22	100	0.397	0.41	220
ERH4D18-270	27	100	0.441	0.35	270
ERH4D18-330	33	100	0.694	0.32	330
ERH4D18-390	39	100	0.709	0.30	390
ERH4D18-470	47	100	0.922	0.28	470
ERH4D18-560	56	100	1.080	0.26	560
ERH4D18-680	68	100	1.300	0.24	680
ERH4D18-820	82	100	1.550	0.22	820
ERH4D18-101	100	100	1.730	0.20	101
ERH4D18-121	120	100	2.390	0.18	121
ERH4D18-151	150	100	2.670	0.15	151
ERH4D18-181	180	100	4.000	0.14	181

Specifications for ERH4D28 Series

PART NUMBER	INDUCTANCE (uH)	TEST FREQ. (KHz)	RDC () (max)	Rated current(A) (max)	Marking
ERH4D28-1R2	1.2	100	0.0236	2.56	1R2
ERH4D28-1R8	1.8	100	0.0275	2.20	1R8
ERH4D28-2R2	2.2	100	0.0313	2.04	2R2
ERH4D28-2R7	2.7	100	0.0433	1.60	2R7
ERH4D28-3R3	3.3	100	0.0492	1.57	3R3
ERH4D28-3R9	3.9	100	0.0648	1.44	3R9
ERH4D28-4R7	4.7	100	0.0720	1.32	4R7
ERH4D28-5R6	5.6	100	0.1009	1.17	5R6
ERH4D28-6R8	6.8	100	0.1089	1.12	6R8
ERH4D28-8R2	8.2	100	0.1175	1.04	8R2
ERH4D28-100	10	100	0.1283	1.00	100
ERH4D28-120	12	100	0.1316	0.84	120
ERH4D28-150	15	100	0.1490	0.76	150
ERH4D28-180	18	100	0.1660	0.72	180
ERH4D28-220	22	100	0.2350	0.70	220
ERH4D28-270	27	100	0.2610	0.58	270
ERH4D28-330	33	100	0.3780	0.56	330
ERH4D28-390	39	100	0.3837	0.50	390



DC-DC Converter Inductor

ERH4D28-470	47	100	0.5870	0.48	470
ERH4D28-560	56	100	0.6245	0.41	560
ERH4D28-680	68	100	0.6990	0.35	680
ERH4D28-820	82	100	0.9148	0.32	820
ERH4D28-101	100	100	1.020	0.29	101
ERH4D28-121	120	100	1.270	0.27	121
ERH4D28-151	150	100	1.350	0.24	151
ERH4D28-181	180	100	1.540	0.22	181
ERH4D28-221	220	100	1.720	0.20	221
ERH4D28-271	270	100	1.950	0.16	271
ERH4D28-331	330	100	2.660	0.14	331

* Tolerance (M 20% , N 30%)

* Test Condition: 100KHz/0.1

* Operating Temp.: -40 ~ +85

* Inductance drop 35% typ. At Rated current

Electrical Characteristics for RH5D18 Series

PART NUMBER	INDUCTANCE (uH)	TEST FREQ. (KHz)	RDC () (max)	Rated current (A) (max)	Marking
ERH5D18-1R0	1.0	10	0.030	3.00	1R0
ERH5D18-2R2	2.2	10	0.045	2.50	2R2
ERH5D18-3R3	3.3	10	0.053	2.15	3R3
ERH5D18-4R1	4.1	10	0.057	1.95	4R1
ERH5D18-4R7	4.7	10	0.062	1.80	4R7
ERH5D18-5R4	5.4	10	0.076	1.60	5R4
ERH5D18-5R6	5.6	10	0.076	1.60	5R6
ERH5D18-6R2	6.2	10	0.096	1.40	6R2
ERH5D18-6R8	6.8	10	0.105	1.40	6R8
ERH5D18-8R9	8.9	10	0.116	1.25	8R9
ERH5D18-100	10	10	0.124	1.20	100
ERH5D18-120	12	10	0.153	1.10	120
ERH5D18-150	15	10	0.196	0.97	150
ERH5D18-180	18	10	0.210	0.85	180



DC-DC Converter Inductor

ERH5D18-220	22	10	0.290	0.80	220
ERH5D18-270	27	10	0.330	0.75	270
ERH5D18-330	33	10	0.385	0.65	330
ERH5D18-390	39	10	0.520	0.57	390
ERH5D18-470	47	10	0.595	0.54	470
ERH5D18-560	56	10	0.665	0.50	560
ERH5D18-680	68	10	0.840	0.43	680
ERH5D18-820	82	10	0.978	0.41	820
ERH5D18-101	100	10	1.200	0.36	101
ERH5D18-151	150	10	1.650	0.25	151
ERH5D18-271	270	10	3.380	0.21	271

Electrical Characteristics for ERH5D28 Series

PART NUMBER	INDUCTANCE (uH)	TEST FREQ. (KHz)	RDC () (max)	Rated current(A) (max)	Marking
ERH5D28-1R0	1.0	10	0.015	3.00	1R0
ERH5D28-2R6	2.6	10	0.018	2.60	2R6
ERH5D28-3R0	3.0	10	0.024	2.40	3R0
ERH5D28-3R3	3.3	10	0.029	2.30	3R3
ERH5D28-4R2	4.2	10	0.031	2.20	4R2
ERH5D28-4R7	4.7	10	0.035	2.20	4R7
ERH5D28-5R3	5.3	10	0.038	1.90	5R3
ERH5D28-6R2	6.2	10	0.045	1.80	6R2
ERH5D28-6R8	6.8	10	0.048	1.70	6R2
ERH5D28-8R2	8.2	10	0.053	1.60	8R2
ERH5D28-8R9	8.9	10	0.060	1.45	8R9
ERH5D28-100	10	10	0.065	1.30	100
ERH5D28-120	12	10	0.076	1.20	120
ERH5D28-150	15	10	0.103	1.10	150
ERH5D28-180	18	10	0.110	1.00	180
ERH5D28-220	22	10	0.122	0.90	220
ERH5D28-270	27	10	0.175	0.85	270
ERH5D28-330	33	10	0.189	0.75	330



ERH5D28-390	39	10	0.212	0.70	390
ERH5D28-470	47	10	0.250	0.62	470
ERH5D28-560	56	10	0.305	0.58	560
ERH5D28-680	68	10	0.355	0.52	680
ERH5D28-820	82	10	0.463	0.46	820
ERH5D28-101	100	10	0.520	0.42	101
ERH5D28-121	120	10	0.560	0.40	121
ERH5D28-151	150	10	0.680	0.35	151
ERH5D28-181	180	10	0.930	0.32	181
ERH5D28-221	220	10	1.150	0.30	221
ERH5D28-271	270	10	1.560	0.27	271
ERH5D28-331	330	10	1.980	0.25	331
ERH5D28-391	390	10	2.500	0.22	391
ERH5D28-471	470	10	2.700	0.20	471
ERH5D28-561	560	10	3.120	0.18	561

Electrical Characteristics for ERH6D18 Series

PART NUMBER	INDUCTANCE (uH)	TEST FREQ. (KHz)	RDC () (max)	Rated current (A) (max)	Marking
ERH6D18-6R8	6.8	100	0.087	2.20	6R8

* Tolerance (M 20% , N 30%)

* Test Condition: 100KHz/0.1

Electrical Characteristics for ERH6D28 Series

PART NUMBER	INDUCTANCE (uH)	TEST FREQ. (KHz)	RDC () (max)	Rated current (A) (max)	Marking
ERH6D28-2R6	2.6	10	0.018	3.20	2R6
ERH6D28-3R0	3.0	10	0.024	3.00	3R0
ERH6D28-3R3	3.3	10	0.025	2.80	3R3
ERH6D28-3R9	3.9	10	0.027	2.60	3R9
ERH6D28-4R7	4.7	10	0.029	2.50	4R7
ERH6D28-5R0	5.0	10	0.031	2.40	5R0
ERH6D28-6R0	6.0	10	0.035	2.25	6R0
ERH6D28-6R8	6.8	10	0.05	2.15	6R8



DC-DC Converter Inductor

ERH6D28-7R3	7.3	10	0.054	2.10	7R3
ERH6D28-8R6	8.6	10	0.058	1.85	8R6
ERH6D28-100	10	10	0.065	1.70	100
ERH6D28-120	12	10	0.070	1.55	120
ERH6D28-150	15	10	0.084	1.40	150
ERH6D28-180	18	10	0.095	1.32	180
ERH6D28-220	22	10	0.128	1.20	220
ERH6D28-270	27	10	0.142	1.05	270
ERH6D28-330	33	10	0.165	0.97	330
ERH6D28-390	39	10	0.210	0.86	390
ERH6D28-470	47	10	0.238	0.80	470
ERH6D28-560	56	10	0.277	0.73	560
ERH6D28-680	68	10	0.304	0.65	680
ERH6D28-820	82	10	0.390	0.60	820
ERH6D28-101	100	10	0.535	0.54	101

Electrical Characteristics for ERH6D38 Series

PART NUMBER	INDUCTANCE (uH)	TEST FREQ. (KHz)	RDC () (max)	Rated current (A)(max)	Marking
ERH6D38-1R5	1.50 uH	10	0.015	3.80	1R5
ERH6D38-2R0	2.00uH	10	0.020	3.60	2R0
ERH6D38-3R3	3.30 uH	10	0.020	3.50	3R3
ERH6D38-4R2	4.20 uH	10	0.022	3.20	4R2
ERH6D38-4R7	4.70 uH	10	0.022	3.20	4R7
ERH6D38-5R0	5.00 uH	10	0.024	2.90	5R0
ERH6D38-6R2	6.20 uH	10	0.027	2.50	6R2
ERH6D38-7R4	7.40 uH	10	0.031	2.30	7R4
ERH6D38-8R2	8.20 uH	10	0.032	2.25	8R2
ERH6D38-8R7	8.70 uH	10	0.034	2.20	8R7
ERH6D38-100	10.00 uH	10	0.038	2.00	100



DC-DC Converter Inductor

ERH6D38-120	12.00 uH	10	0.053	1.70	120
ERH6D38-150	15.00 uH	10	0.057	1.60	150
ERH6D38-180	18.00 uH	10	0.092	1.50	180
ERH6D38-220	22.00 uH	10	0.096	1.30	220
ERH6D38-270	27.00 uH	10	0.109	1.20	270
ERH6D38-330	33.00 uH	10	0.121	1.10	330
ERH6D38-390	39.00 uH	10	0.138	1.00	390
ERH6D38-470	47.00 uH	10	0.166	0.95	470
ERH6D38-560	56.00 uH	10	0.202	0.85	560
ERH6D38-680	68.00 uH	10	0.234	0.75	680
ERH6D38-820	82.00 uH	10	0.324	0.70	820
ERH6D38-101	100.00 uH	10	0.358	0.65	101
ERH6D38-181	180.00uH	10	1.00	1.40	181

* Tolerance (M 20% , N 30%)

* Test Condition: 10KHz/0.1

*Operating Temp.: -40 ~+85

*Inductance drop 35% typ. At Rated current