



RL-5470

RL-5471, RL-5472, RL-5473

POWER INDUCTORS FOR TEXAS INSTRUMENTS

(FORMALLY NATIONAL SEMICONDUCTOR)

DESCRIPTION

- Power Inductors

ENVIRONMENTAL DATA

- Storage temperature range:
-55°C to +130°C
- Operating temperature range:
-40°C to +130°C

PACKAGING INFORMATION

- Packaging information: pg. 510

FEATURES & APPLICATIONS

- Inductances from 21μH to 400 μH with saturation currents available from 0.7 A to 5.0 A
- High-saturation material makes coils ideal for use in switching regulated power supply applications
- Size of through-hole coils allows easy installation in equipment
- Use of ferrite cores allows for low core loss operations
- Typical applications include: switching regulators, boost, buck and buck boost
- For simple switcher applications LM258X and LM259X

Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

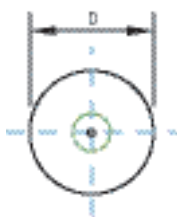
MECHANICAL DIMENSIONS

U.S. Standard (mm)

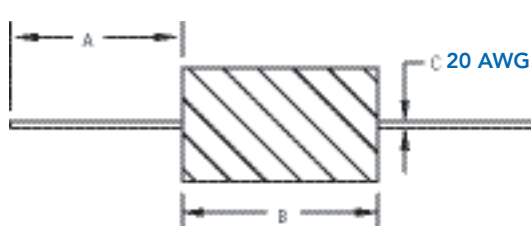
PART NUMBER	A (MIN.)	B (MAX.)	C	D (MAX.)
RL-5470	1.000 (25.40)	0.700 (17.78)	0.032 (0.81)	0.260 (6.60)
RL-5471	1.000 (25.40)	0.900 (22.86)	0.032 (0.81)	0.453 (11.51)
RL-5472	1.000 (25.40)	0.990 (25.15)	0.032 (0.81)	0.570 (14.48)

PART NUMBER	PART WEIGHT
RL-5470	1.0g (0.03oz)
RL-5471	9.0g (0.30oz)
RL-5472	13.0g (0.44oz)

FRONT VIEW



SIDE VIEW



SCHEMATIC



RENCO ELECTRONICS INC.

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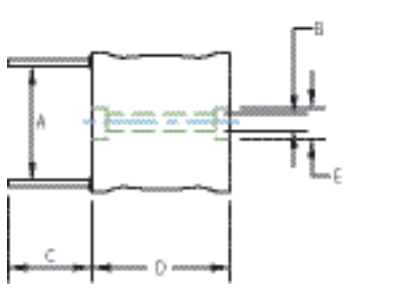


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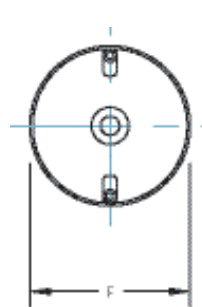
U.S. Standard (mm)

PART NUMBER	A	B (4/40 screw)	C	D (MAX.)	E	F (MAX.)
RL-5473-1	0.562 (14.27)	0.100 (2.54)	0.500 (12.70)	0.840 (21.34)	0.195 (4.95)	0.825 (20.96)
RL-5473-2	0.593 (15.06)	0.100 (2.54)	0.500 (12.70)	0.840 (21.34)	0.195 (4.95)	0.825 (20.96)
RL-5473-3	0.656 (16.66)	0.100 (2.54)	0.500 (12.70)	0.840 (21.34)	0.195 (4.95)	0.825 (20.96)

FRONT VIEW



SIDE VIEW



SCHEMATIC



NSC REF. NUMBER	Lnom NSC REF. IND.(μH)	RENCO PART NUMBER	CIRCUIT ENERGY RATING (μJ)	INDUCTOR CURRENT RATING IDC/RMS A	DCR MAX. (Ohms) @ 20° C	OPEN CIRCUIT INDUCTANCE (Loc) ± 10% μH	Isat (A) MIN
L1	220.0	RL-5470-3	3.0	0.240	0.603	275.0	1.54
L2	150.0	RL-5470-4	3.0	0.298	0.396	186.0	1.68
L3	100.0	RL-5470-5	3.0	0.370	0.299	122.0	1.80
L4	68.0	RL-1284-68-43	3.0	0.804	0.145	68.0	1.05
L5	47.0	RL-1284-47-43	3.0	0.804	0.109	47.0	1.25
L6	33.0	RL-1284-33-43	3.0	1.008	0.075	33.0	1.54
L7	22.0	RL-1284-22-43	3.0	1.280	0.050	22.0	1.89
L8	330.0	RL-5470-2	10.0	0.194	0.765	409.0	0.44
L9	220.0	RL-5470-3	10.0	0.240	0.603	275.0	0.54
L10	150.0	RL-5470-4	10.0	0.298	0.394	186.0	0.68
L11	100.0	RL-5470-5	10.0	0.370	0.299	122.0	0.80
L12	68.0	RL-5470-6	10.0	0.458	0.168	82.0	0.90
L13	47.0	RL-5470-7	10.0	0.565	0.133	57.0	1.00
L14	33.0	RL-1284-33-43	10.0	1.008	0.075	22.0	1.89
L15	22.0	RL-1284-22-43	10.0	1.280	0.050	22.0	1.89
L16	15.0	RL-1284-15-43	10.0	1.280	0.040	15.0	2.31
L17	330.0	RL-5471-1	30.0	0.650	0.247	390.0	0.96
L18	220.0	RL-5471-2	30.0	0.810	0.195	277.0	1.10
L19	150.0	RL-5471-3	30.0	1.000	0.150	187.0	1.20
L20	100.0	RL-5471-4	30.0	1.240	0.115	120.0	1.60

RL-5471 TABLE CONTINUES ON FOLLOWING PAGE



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NSC REF. NUMBER	L _{nom} NSC REF. IND.(μH)	RENCO PART NUMBER	CIRCUIT ENERGY RATING (μJ)	INDUCTOR CURRENT RATING IDC/RMS A	DCR MAX. (Ohms) @ 20° C	OPEN CIRCUIT INDUCTANCE (L _{oc}) ± 10% μH	I _{sat} (A) MIN
L21	68.0	RL-5471-5	30.0	1.530	0.064	79.0	2.00
L22	47.0	RL-5471-6	30.0	1.870	0.045	54.0	2.50
L23	33.0	RL-5471-7	30.0	2.280	0.033	37.0	3.10
L24	22.0	RL-1283-22-43	30.0	4.000	0.026	22.0	4.25
L25	15.0	RL-1283-15-43	30.0	4.000	0.022	15.0	5.14
L26	330.0	RL-5471-1	100.0	0.65	0.247	390.0	0.96
L27	220.0	RL-5471-2	100.0	0.81	0.195	270.0	1.10
L28	150.0	RL-5471-3	100.0	1.09	0.150	187.0	1.20
L29	100.0	RL-5471-4	100.0	1.24	0.115	120.0	1.60
L30	68.0	RL-5471-5	100.0	1.53	0.064	79.0	2.00
L31	47.0	RL-5471-6	100.0	1.87	0.045	54.0	2.50
L32	33.0	RL-5471-7	100.0	2.28	0.033	37.0	3.10
L33	22.0	RL-1283-22-43	100.0	4.00	0.026	22.0	4.25
L34	15.0	RL-1283-15-43	100.0	4.00	0.022	15.0	9.00
L35	220.0	RL-5473-1	300.0	3.01	0.213	270.0	7.00
L36	150.0	RL-5473-4	300.0	4.00	0.110	180.0	7.80
L37	100.0	RL-5472-1	300.0	2.18	0.099	140.0	2.00
L38	68.0	RL-5472-2	300.0	2.67	0.053	88.0	2.50
L39	47.0	RL-5472-3	300.0	3.00	0.045	57.0	3.10
L40	33.0	RL-5472-4	300.0	3.00	0.028	37.0	3.80
L41	22.0	RL-5472-5	300.0	3.00	0.022	25.1	4.50
L42	150.0	RL-5473-4	570.0	4.00	0.110	180.0	7.80
L43	100.0	RL-5473-2	570.0	3.00	0.090	115.0	8.00
L44	68.0	RL-5473-3	405.0	3.00	0.053	79.0	12.0

NOTES:

1. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
2. I_{sat} - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 5%

