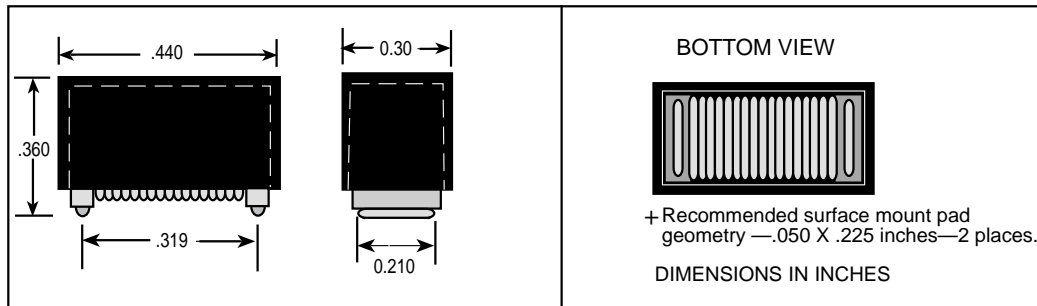


LM258X BOOST REGULATOR INDUCTORS				THROUGH HOLE STYLE				
APPLICATION			DESIGN CONTROL PARAMETERS					
NSC REFERENCE NUMBER	L nom NSC REF. IND. (μH)	RENCO PART NUMBER	Circuit ENERGY RATING (μJ)	INDUCTOR CURRENT RATING I DC/RMS (A)	MAX. DCR OHMS (Ω) @ 20° C	OPEN CIRCUIT INDUCTANCE (Loc) ± 10% μH	I* SAT (A) MIN	DIMENSION REFERENCE ILLUSTR. NO.
L1	15	RL-1283-15-43	21	4.0	.022	15.	4.25	B
L2	15	RL-1283-15-43	51	4.0	.022	15.	4.25	B
L3	22	RL-5472-5	202	4.22	.022	25.	4.5	A

\* I SAT: Current for reduction in inductance of 10% from open circuit value (Loc)

LM259x BUCK REGULATOR INDUCTORS				SURFACE MOUNT STYLES		
APPLICATION				DESIGN CONTROL PARAMETERS		
NSC REFERENCE NUMBER	Lnom NSC REF. IND. (μH)	RENCO PART NUMBER	Circuit ENERGY RATING (μJ)	OUTPUT CURRENT AMPS	MAX. DCR OHMS (Ω)	DC SATURATION CURRENT (TYPICAL) AMPS (5% L drop)
L1	220	RL-1500-220	3	0.13	1.14	1.2
L2	150	RL-1500-150	3	0.16	0.984	1.4
L3	100	RL-1500-100	3	0.20	0.874	1.6
L4	68	RL-1500-68	3	0.25	0.408	1.8
L5	47	RL-1500-47	3	0.30	0.336	2.1
L6	33	RL-1500-33	3	0.34	0.280	2.4
L7	22	RL-1500-22	3	0.45	0.152	3.0
L8	330	RL-1500-330	10	0.15	1.64	1.0
L9	220	RL-1500-220	10	0.25	1.14	1.2
L10	150	RL-1500-150	10	0.30	0.984	1.4
L11	100	RL-1500-100	10	0.38	0.874	1.6
L12	68	RL-1500-68	10	0.46	0.408	1.8
L13	47	RL-1500-47	10	0.56	0.336	2.1
L14	33	RL-1500-33	10	0.68	0.280	2.4
L15	22	RL-1500-22	10	0.84	0.152	3.0
L16	15	RL-1500-15	10	1.02	0.102	4.1
L17	330	RL-1500-330	30	0.31	1.64	1.0
L18	220	RL-1500-220	30	0.44	1.14	1.2
L19	150	RL-1500-150	30	0.54	0.984	1.4
L20	100	RL-1500-100	30	0.67	0.874	1.6
L21	68	RL-1500-68	30	0.82	0.408	1.8



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LM259X BUCK REGULATOR INDUCTORS				THROUGH HOLE STYLE (SMT FOLLOWING PAGE)				
APPLICATION				DESIGN CONTROL PARAMETERS				
NSC REFERENCE NUMBER	L nom NSC REF. IND. (µH)	RENCO PART NUMBER	Circuit ENERGY RATING (µJ)	INDUCTOR CURRENT RATING I DC/RMS (A)	MAX. DCR OHMS (Ω) @ 20° C	OPEN CIRCUIT INDUCTANCE (Loc) ± 10% µH	I* SAT (A) MIN	DIMENSION REFERENCE ILLUSTR. NO.
L1	220	RL-5470-3	3	.240	.603	275.	1.54	C
L2	150	RL-5470-4	3	.298	.396	186.	1.68	
L3	100	RL-5470-5	3	.370	.299	122.	1.80	
L4	68	RL-1284-68-43	3	.804	.145	68.	1.05	
L5	47	RL-1284-47-43	3	.804	.109	47.	1.25	C
L6	33	RL-1284-33-43	3	1.008	.075	33.	1.54	C
L7	22	RL-1284-22-43	3	1.28	.050	22.	1.89	
L8	330	RL-5470-2	10	.194	.765	409.	.44	
L9	220	RL-5470-3	10	.240	.603	275.	.54	
L10	150	RL-5470-4	10	.298	.394	186.	.68	C
L11	100	RL-5470-5	10	.370	.299	122.	.80	C
L12	68	RL-5470-6	10	.458	.168	82.	.90	
L13	47	RL-5470-7	10	.565	.133	57.	1.00	
L14	33	RL-1284-33-43	10	1.008	.075	22.	1.89	
L15	22	RL-1284-22-43	10	1.28	.050	22.	1.89	C
L16	15	RL-1284-15-43	10	1.28	.040	15.	2.31	C
L17	330	RL-5471-1	30	.65	.247	390.	.96	B
L18	220	RL-5471-2	30	.81	.195	277.	1.1	
L19	150	RL-5471-3	30	1.00	.150	187.	1.2	
L20	100	RL-5471-4	30	1.24	.115	120.	1.6	B
L21	68	RL-5471-5	30	1.53	.064	79.	2.0	B
L22	47	RL-5471-6	30	1.87	.045	54.	2.5	
L23	33	RL-5471-7	30	2.28	.033	37.	3.1	
L24	22	RL-1283-22-43	30	4.0	.026	22.	4.25	
L25	15	RL-1283-15-43	30	4.0	.022	15.	5.14	B
L26	330	RL-5471-1	100	.65	.247	390.	.96	B
L27	220	RL-5471-2	100	.81	.195	270.	1.1	B
L28	150	RL-5471-3	100	1.09	.150	187.	1.2	B
L29	100	RL-5471-4	100	1.24	.115	120.	1.6	B
L30	68	RL-5471-5	100	1.53	.064	79.	2.0	B
L31	47	RL-5471-6	100	1.87	.045	54.	2.5	B
L32	33	RL-5471-7	100	2.28	.033	37.	3.1	B
L33	22	RL-1283-22-43	100	4.0	.026	22.	4.25	B
L34	15	RL-1283-15-43	100	4.0	.022	15.	9.0	B
L35	220	RL-5473-1	300	3.01	.054	270.	12.0	D
L36	150	RL-5473-4	300	4.0	.110	180.	7.8	D
L37	100	RL-5472-1	300	2.18	.099	140.	2.0	A
L38	68	RL-5472-2	300	2.67	.0345	88.	2.50	A
L39	47	RL-5472-3	300	3.00	.053	57.	3.1	A
L40	33	RL-5472-4	300	3.00	.0276	37.	3.8	A
L41	22	RL-5472-5	300	3.00	.0224	25.1	4.5	A
L42	150	RL-5473-4	570	4.00	.110	180.	7.8	D
L43	100	RL-5473-2	570	3.00	.090	115.	8.0	D
L44	68	RL-5473-3	405	3.00	.004	79.	12.0	D

\* I SAT: Current for reduction in inductance of 10% from open circuit value (Loc)



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# RL-5470

## RL-5471, RL-5472, RL-5473

### POWER INDUCTORS

For National Semiconductor®

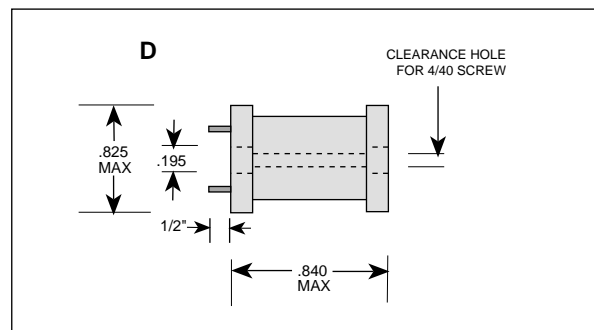
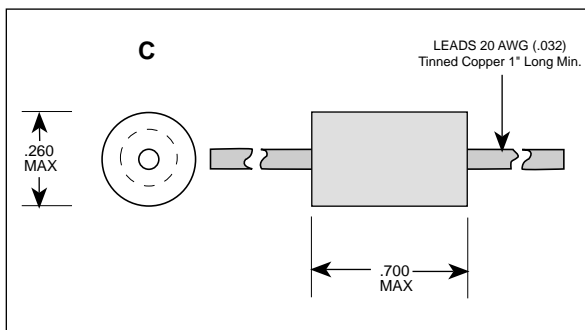
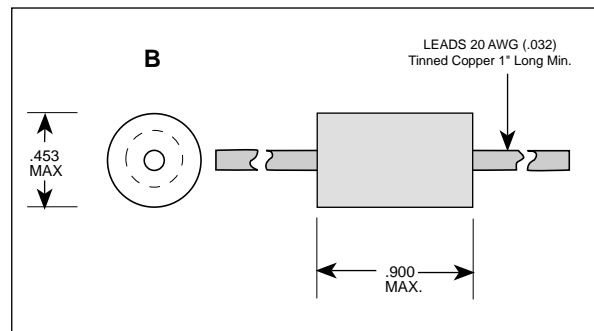
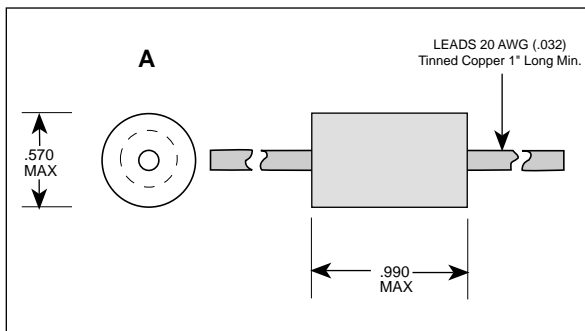


#### New LM258X and LM259X Simple Switcher™ Applications

This series of Power Line Chokes has inductances from 21 $\mu$ H to 400 $\mu$ H with saturation currents available from .7 Amps to 5.0 Amps. The use of high saturation material make these coils ideal for use in switching regulated power supply type applications. The size of these through-hole coils make them easy to install in equipment. The use of ferrite cores allows for low core loss operation. See separate data sheet for surface mount devices.

#### Typical Applications:

- Switching Regulators: Boost, Buck and Buck Boost



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