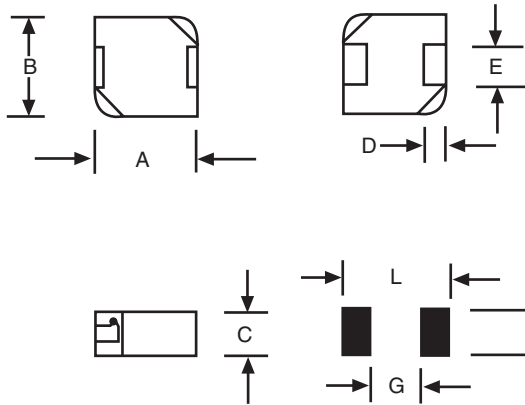
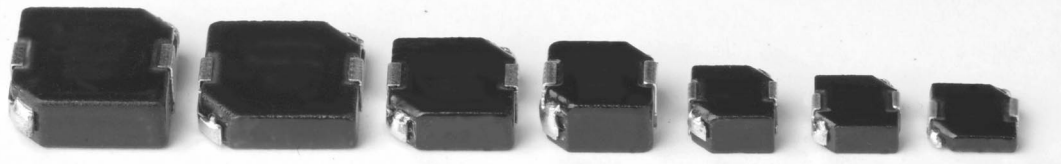




**DESIGNER KIT AVAILABLE**  
Order on-line P/N RL-8250-DK

# RL-8250

## HIGH CURRENT SMD POWER INDUCTORS\*



### FEATURES

- Lowest height in this package footprint.
- Shielded and epoxy coated construction.
- Lowest DCR/ $\mu$ H, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.
- Frequency up to 5MHz.
- Lead Free (Pb).

### APPLICATIONS

Excellent for use in PDAs, notebook computers, desktop computers, server applications, high current POL converters, low profile high current power supplies, battery powered devices, DC/DC converters in distributed power systems and Field Programmable Gate Arrays.

### TAPE AND REEL PACKAGING

PART NUMBER	PIECES PER REEL	PLASTIC REEL SIZE
RL-8250-0	1000	13"
RL-8250-1	1000	13"
RL-8250-1.4	1000	13"
RL-8250-1.5	800	13"
RL-8250-2	900	13"
RL-8250-3	600	13"
RL-8250-4	500	13"

### GENERAL SPECIFICATIONS

- Operating Temperature:  $-55^{\circ}\text{C}$  -  $+125^{\circ}\text{C}$ .
- All test data is referenced to  $25^{\circ}\text{C}$  ambient.
- Heat Rated Current (Irms) will cause the coil temperature to rise approximately  $40^{\circ}\text{C}$  above  $25^{\circ}\text{C}$  ambient without core loss.
- Saturation Current (Isat) will cause  $L_0$  to drop approximately 20%.
- The part temperature (ambient + temp. rise) should not exceed  $125^{\circ}\text{C}$  under worst case operating conditions.

\* Patented in China and Taiwan

MECHANICAL DIMENSIONS in millimeters

PART NUMBER	A	B	C	D	E	G	H	L
	max	max	max					
RL-8250-0	7.8	7	2	$1.6\pm 0.5$	$2.1\pm 0.5$	3.7 Ref	3.5 Ref	8.7 Ref
RL-8250-1	7.8	7	3	$1.6\pm 0.5$	$2.1\pm 0.5$	3.7 Ref	3.5 Ref	8.7 Ref
RL-8250-1.4	7.8	7	4	$1.6\pm 0.8$	$2.1\pm 0.6$	3.7 Ref	3.5 Ref	8.7 Ref
RL-8250-1.5	9.5	9	5.2	$2.2\pm 0.5$	$2.9\pm 0.5$	4.0 Ref	4.0 Ref	10.0 Ref
RL-8250-2	11.8	10.5	4	$2.2\pm 0.5$	$2.9\pm 0.5$	5.4 Ref	4.5 Ref	12.4 Ref
RL-8250-3	13.9	13.5	3.5	$2.5\pm 0.5$	$3.0\pm 0.5$	7.0 Ref	4.5 Ref	15.0 Ref
RL-8250-4	13.9	13.5	5	$2.5\pm 0.5$	$3.0\pm 0.5$	7.0 Ref	4.5 Ref	15.0 Ref



## RENCO ELECTRONICS, INC.

595 International Place, Rockledge, FL 32955-4200 USA

(321) 637-1000 • Toll Free Engineering Hot line 800-645-5828

Fax: (321) 637-1600 Web Site: [www.rencousa.com](http://www.rencousa.com) E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)

Renco Part Number	Inductance ( $\mu\text{H}$ ) $\pm 20\%$	DCR ( $\text{m}\Omega$ ) max.	Irms (A)	Isat (A)*
RL-8250-0-R10M	0.10	3.5	34.00	40.0
RL-8250-0-R15M	0.15	5.2	24.00	28.0
RL-8250-0-R22M	0.22	5.7	18.00	26.0
RL-8250-0-R33M	0.33	7.0	16.00	18.0
RL-8250-0-R47M	0.47	9.3	13.75	18.0
RL-8250-0-R68M	0.68	13.9	14.75	17.0
RL-8250-0-R82M	0.82	15.9	11.75	15.0
RL-8250-0-1R0M	1.00	18.0	10.00	14.0
RL-8250-0-1R5M	1.50	34.0	9.50	12.0
RL-8250-0-2R2M	2.20	46.0	7.50	9.0
RL-8250-0-2R5M	2.50	52.0	6.50	10.4
RL-8250-0-3R3M	3.30	60.0	5.25	7.0
RL-8250-0-4R7M	4.70	78.0	4.75	5.0

Renco Part Number	Inductance ( $\mu\text{H}$ ) $\pm 20\%$	DCR ( $\text{m}\Omega$ ) max.	Irms (A)	Isat (A)*
RL-8250-1-R10M	0.10	1.7	30.00	42.0
RL-8250-1-R15M	0.15	2.5	30.00	38.0
RL-8250-1-R20M	0.20	3.0	29.00	36.0
RL-8250-1-R22M	0.22	2.8	29.00	36.0
RL-8250-1-R33M	0.33	3.9	29.00	30.0
RL-8250-1-R47M	0.47	4.2	25.00	26.0
RL-8250-1-R68M	0.68	5.5	20.00	23.0
RL-8250-1-R82M	0.82	8.0	17.00	20.0
RL-8250-1-1R0M	1.00	10.0	11.00	16.0
RL-8250-1-1R5M	1.50	15.0	9.00	14.0
RL-8250-1-1R8M	1.80	20.0	12.00	17.0
RL-8250-1-2R2M	2.20	20.0	8.00	12.0
RL-8250-1-3R3M	3.30	30.0	9.00	10.0
RL-8250-1-4R7M	4.70	40.0	5.75	6.5
RL-8250-1-6R8M	6.80	60.0	5.00	6.0
RL-8250-1-8R2M	8.20	68.0	5.25	5.5
RL-8250-1-100M	10.00	105.0	4.25	4.5



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Renco Part Number	Inductance ( $\mu\text{H}$ ) $\pm 20\%$	DCR ( $\text{m}\Omega$ ) max.	Irms (A)	Isat (A)*
RL-8250-1.4-R33M	0.33	1.4	23.00	32.0
RL-8250-1.4-R47M	0.47	2.0	28.50	30.0
RL-8250-1.4-R68M	0.68	3.8	19.00	28.0
RL-8250-1.4-R82M	0.82	5.0	18.00	24.0
RL-8250-1.4-1R0M	1.00	7.0	16.00	20.0
RL-8250-1.4-1R2M	1.20	8.0	11.00	18.0
RL-8250-1.4-1R5M	1.50	10.0	12.00	16.0
RL-8250-1.4-1R8M	1.80	13.0	14.00	14.0
RL-8250-1.4-2R2M	2.20	15.0	14.25	14.0
RL-8250-1.4-3R3M	3.30	18.0	8.00	11.0
RL-8250-1.4-4R7M	4.70	21.0	7.25	9.0
RL-8250-1.4-5R6M	5.60	30.0	5.75	7.0
RL-8250-1.4-6R8M	6.80	32.0	6.25	7.0

Renco Part Number	Inductance ( $\mu\text{H}$ ) $\pm 20\%$	DCR ( $\text{m}\Omega$ ) max.	Irms (A)	Isat (A)*
RL-8250-1.5-R10M	0.10	0.7	41.00	45.0
RL-8250-1.5-R20M	0.20	0.8	37.75	45.0
RL-8250-1.5-R36M	0.36	1.2	36.00	40.0
RL-8250-1.5-R47M	0.47	1.5	34.00	38.0
RL-8250-1.5-R56M	0.56	1.8	31.00	36.0
RL-8250-1.5-R68M	0.68	2.4	27.00	32.0
RL-8250-1.5-R82M	0.82	2.4	23.00	25.0
RL-8250-1.5-1R0M	1.00	3.8	19.00	22.0
RL-8250-1.5-1R5M	1.50	4.5	17.00	20.0
RL-8250-1.5-2R2M	2.20	5.4	14.75	16.0
RL-8250-1.5-3R3M	3.30	7.1	11.75	14.0
RL-8250-1.5-4R7M	4.70	12.3	11.00	13.0
RL-8250-1.5-5R6M	5.60	14.5	11.00	12.0
RL-8250-1.5-6R8M	6.80	20.5	8.50	11.0
RL-8250-1.5-8R2M	8.20	21.9	8.50	10.0
RL-8250-1.5-100M	10.00	26.5	7.00	9.0



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Renco Part Number	Inductance ( $\mu\text{H}$ ) $\pm$ 20%	DCR ( $\text{m}\Omega$ ) max.	Irms (A)	Isat (A)*
RL-8250-2-R20M	0.20	1.0	36.00	40.0
RL-8250-2-R36M	0.36	1.4	31.00	40.0
RL-8250-2-R47M	0.47	1.6	28.25	38.0
RL-8250-2-R56M	0.56	1.9	32.00	36.0
RL-8250-2-R68M	0.68	2.4	33.00	32.0
RL-8250-2-1R0M	1.00	3.5	24.75	28.0
RL-8250-2-1R5M	1.50	7.5	22.00	20.0
RL-8250-2-2R2M	2.20	8.6	17.00	16.5
RL-8250-2-3R3M	3.30	10.0	12.75	14.0
RL-8250-2-4R7M	4.70	13.5	12.75	13.0
RL-8250-2-5R6M	5.60	16.0	12.00	12.0
RL-8250-2-8R2M	8.20	32.5	7.50	8.0
RL-8250-2-100M	10.00	35.0	6.50	9.0

Renco Part Number	Inductance ( $\mu\text{H}$ ) $\pm$ 20%	DCR ( $\text{m}\Omega$ ) max.	Irms (A)	Isat (A)*
RL-8250-3-R10M	0.10	0.96	44.00	56.0
RL-8250-3-R15M	0.15	1.20	40.00	50.0
RL-8250-3-R22M	0.22	1.30	43.00	50.0
RL-8250-3-R33M	0.33	1.50	41.00	50.0
RL-8250-3-R47M	0.47	2.00	34.00	44.0
RL-8250-3-R60M	0.60	2.50	36.00	42.0
RL-8250-3-R68M	0.68	2.50	36.00	40.0
RL-8250-3-R82M	0.82	3.00	30.00	38.0
RL-8250-3-1R0M	1.00	3.50	30.00	36.0
RL-8250-3-1R5M	1.50	5.50	23.75	28.0
RL-8250-3-1R8M	1.80	7.00	19.00	24.0
RL-8250-3-2R2M	2.20	8.00	20.75	20.0
RL-8250-3-3R3M	3.30	12.00	16.75	18.0
RL-8250-3-4R7M	4.70	15.00	14.75	16.0
RL-8250-3-5R6M	5.60	18.00	14.75	14.0
RL-8250-3-6R8M	6.80	22.0	10.50	13.0
RL-8250-3-8R2M	8.20	28.0	9.50	12.0
RL-8250-3-100M	10.00	34.0	9.25	9.5



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Renco Part Number	Inductance (μH) ± 20%	DCR (mΩ) max.	Irms (A)	Isat (A)*
RL-8250-4-R36M	0.36	1.1	41.00	75.0
RL-8250-4-R47M	0.47	1.3	38.00	65.0
RL-8250-4-R56M	0.56	1.5	36.00	55.0
RL-8250-4-R68M	0.68	1.7	34.00	54.0
RL-8250-4-1R0M	1.00	2.5	29.00	50.0
RL-8250-4-1R5M	1.50	7.5	26.00	48.0
RL-8250-4-2R2M	2.20	5.5	22.00	32.0
RL-8250-4-3R3M	3.30	9.2	21.00	32.0
RL-8250-4-4R7M	4.70	15.0	14.00	27.0
RL-8250-4-6R8M	6.80	18.0	15.75	21.0
RL-8250-4-7R8M	7.80	20.5	10.00	18.0
RL-8250-4-100M	10.00	25.5	11.00	16.0

- Tested @ 100kHz, 0.25Vrms, 25°C
- \*Saturation current (Isat) will cause L<sub>o</sub> to drop approximately 20%
- Heat Rated Current (Irms) will cause the coil temperature to rise approximately 40°C above 25°C ambient without core loss.
- Operating temperature range -55°C to +125°C
- Storage temperature -55°C to +125°C
- Resistance to solder heat: 260°C for 10 seconds
- Part temperature (Ambient + Temp. Rise): Should not exceed 125°C



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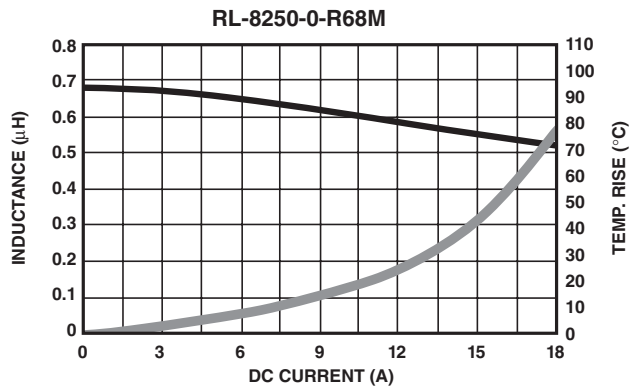
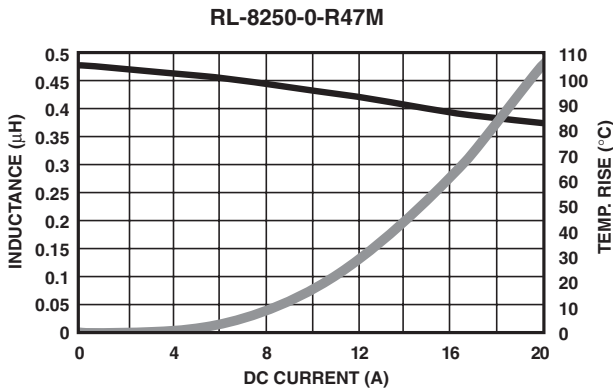
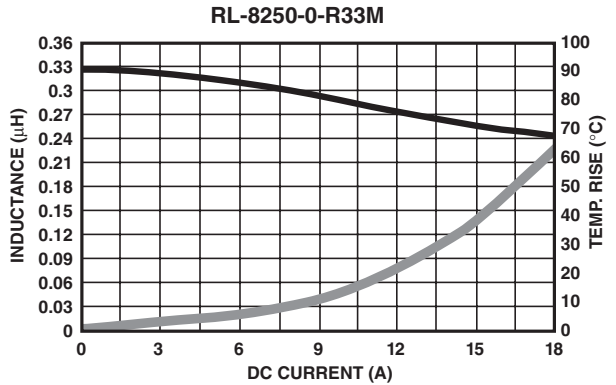
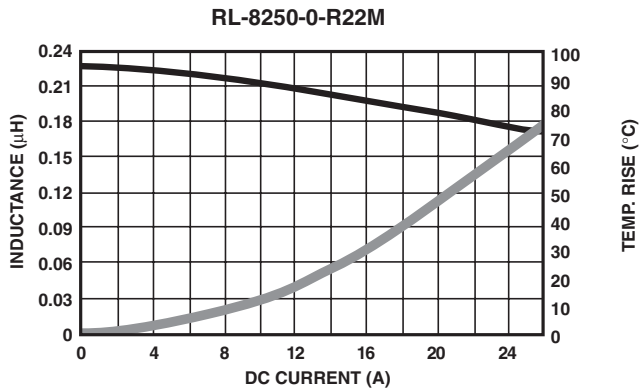
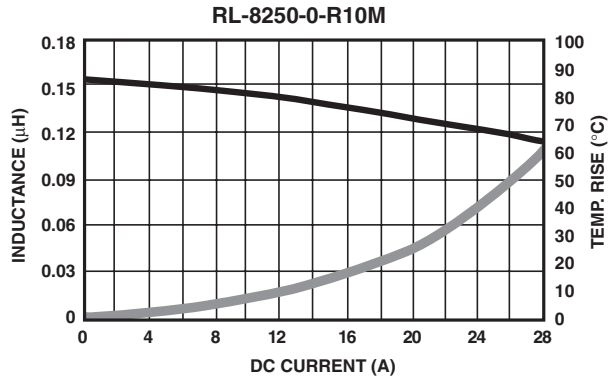
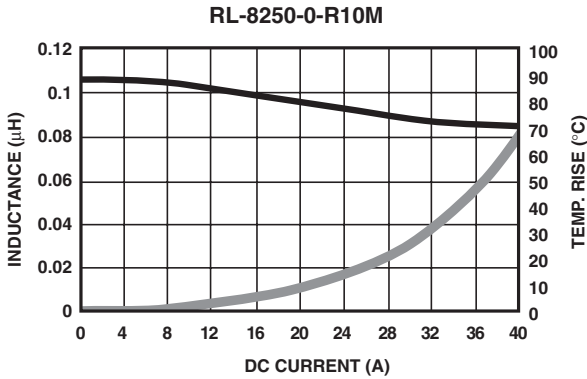
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# RL-8250-0

— INDUCTANCE ( $\mu\text{H}$ )  
 — TEMP. RISE ( $^{\circ}\text{C}$ )



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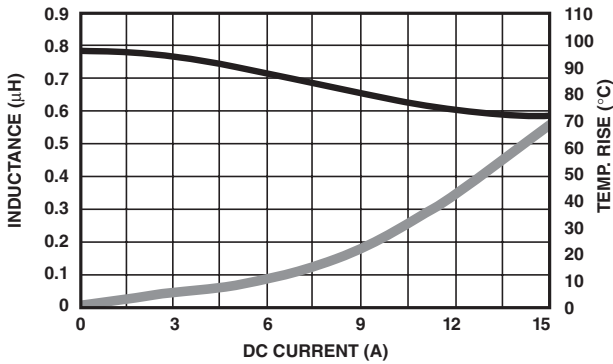
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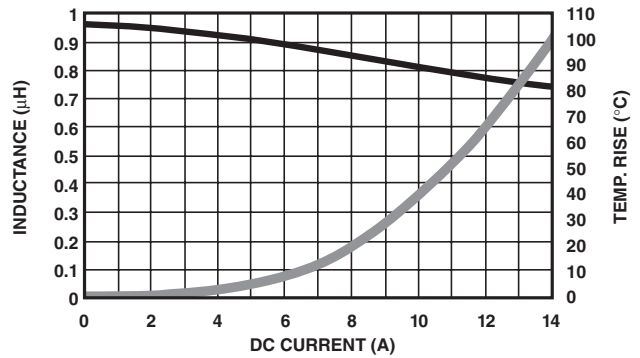
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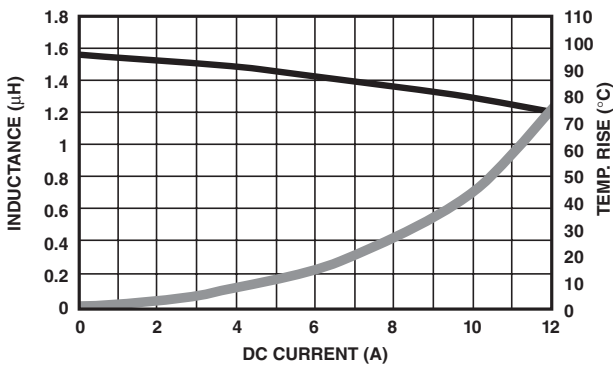
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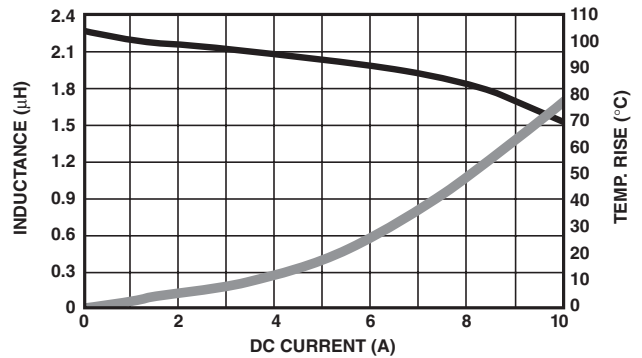
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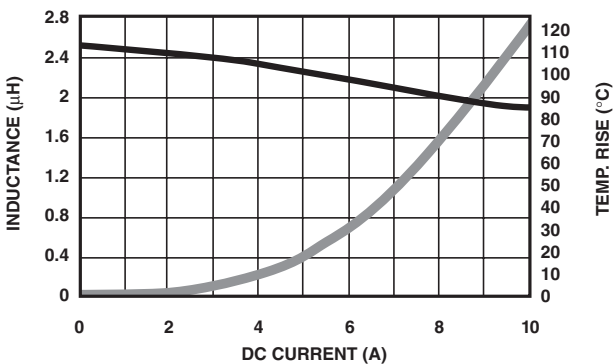
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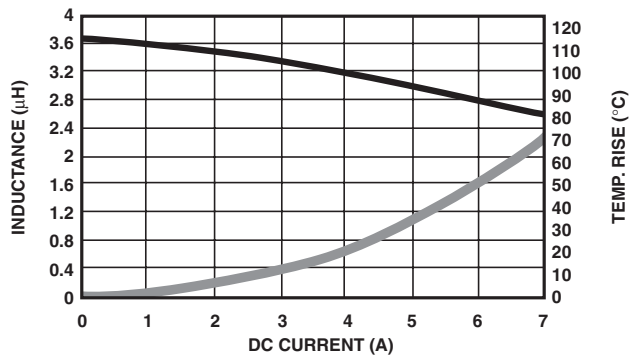
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**RL-8250-0-2R5M**



**RL-8250-0-3R3M**

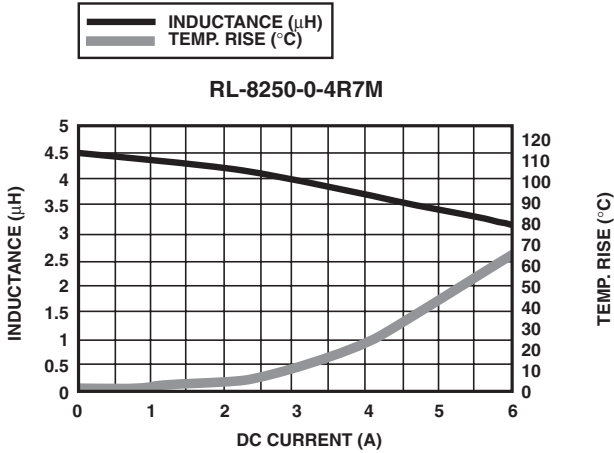


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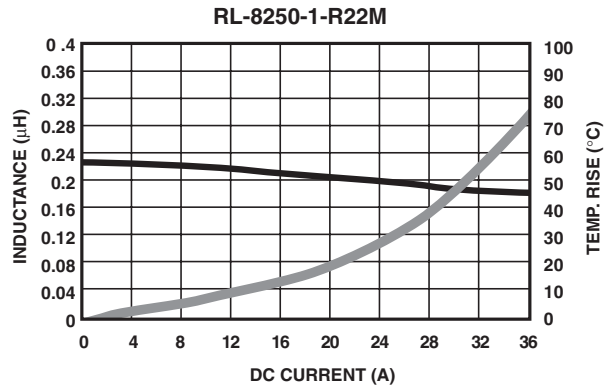
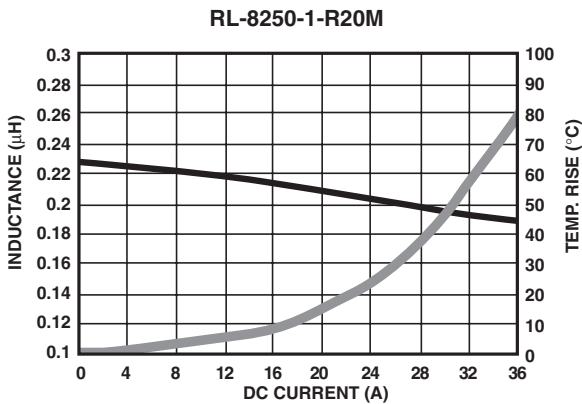
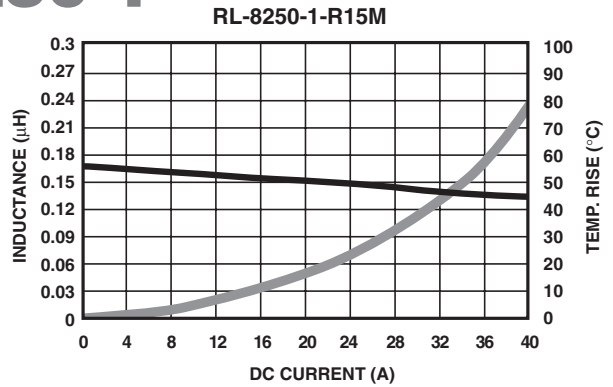
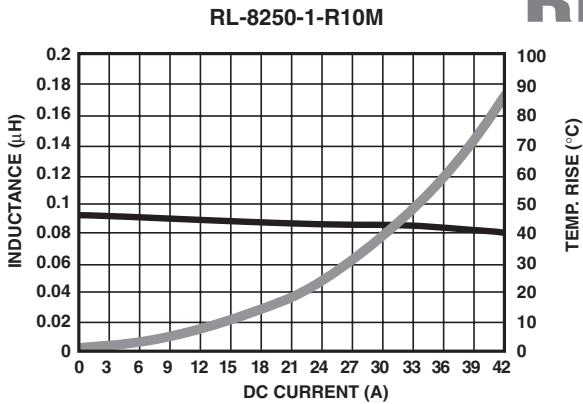
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# RL-8250-1



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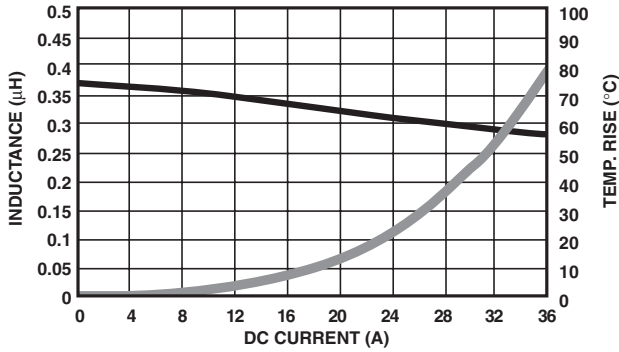
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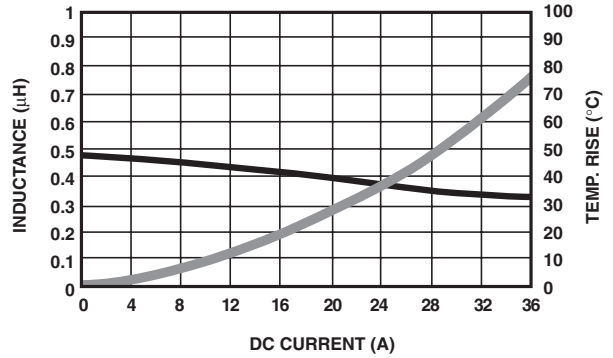
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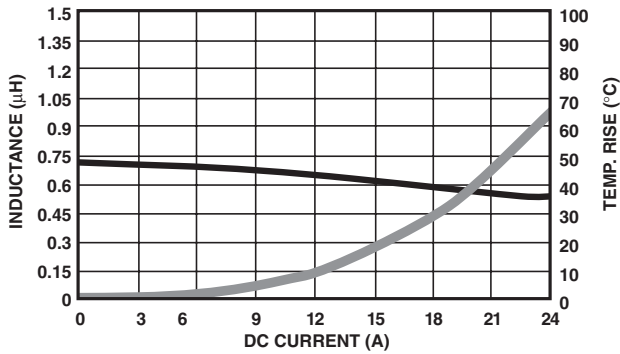
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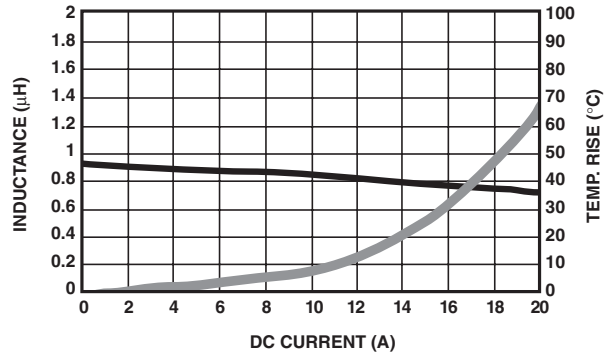
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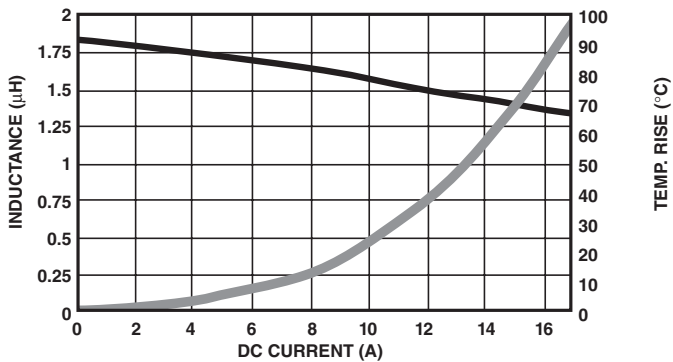
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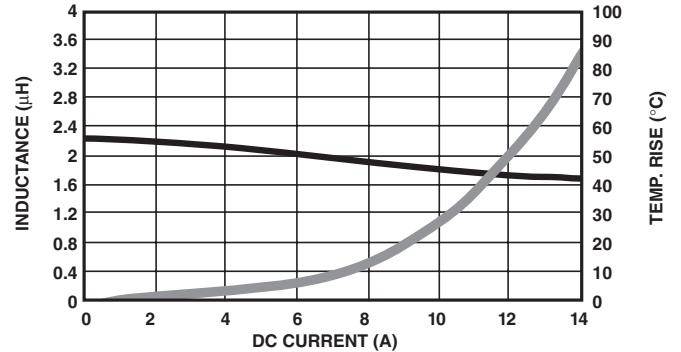
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RL-8250-1-1R8M



RL-8250-1-1R2M



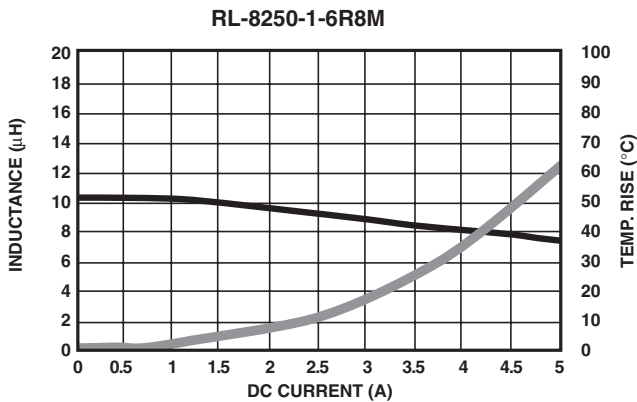
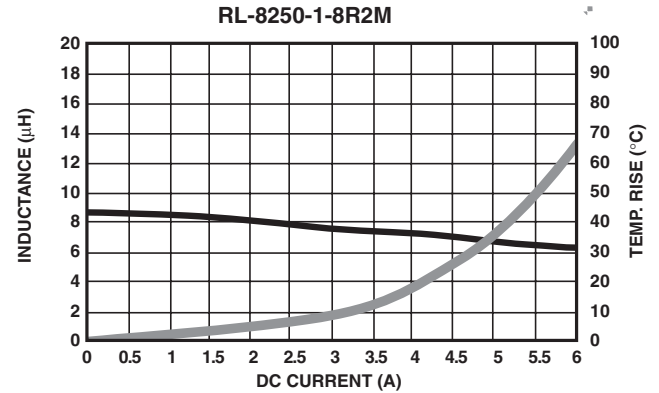
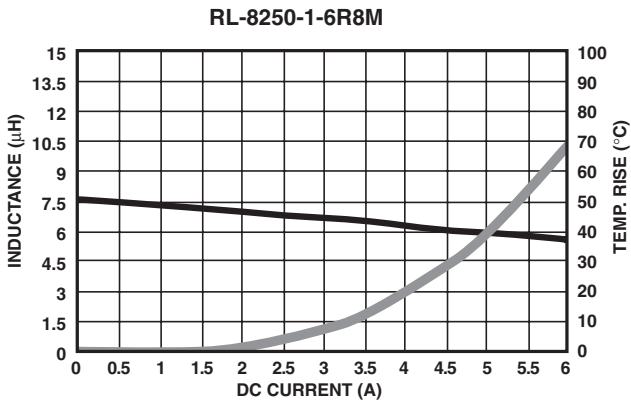
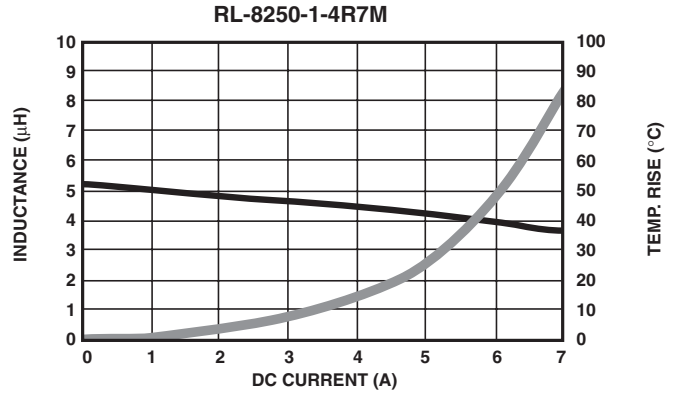
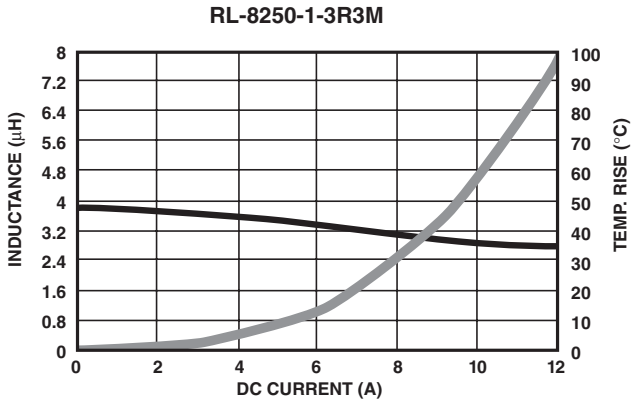
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Fax: (321) 637-1600 Web Site: [www.rencousa.com](http://www.rencousa.com) E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)

INDUCTANCE ( $\mu\text{H}$ )  
 TEMP. RISE ( $^{\circ}\text{C}$ )



# RENCO ELECTRONICS, INC.

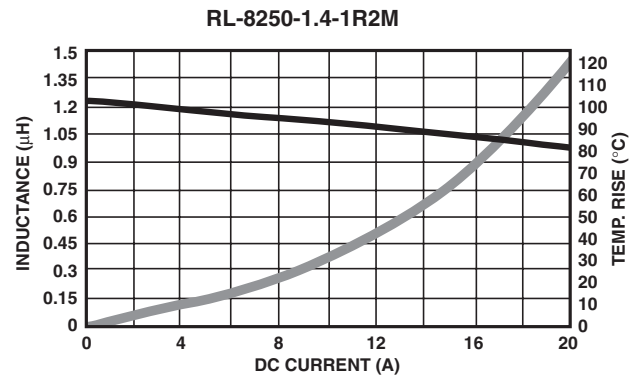
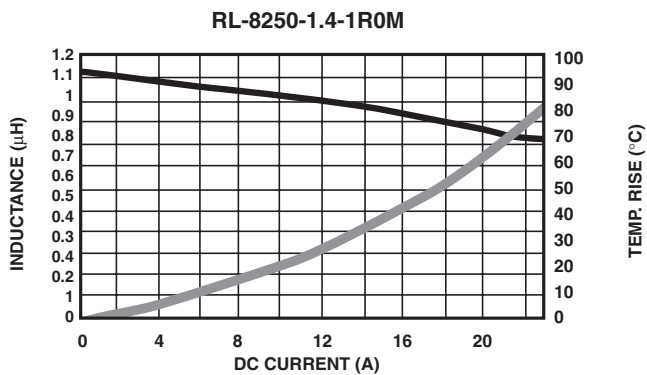
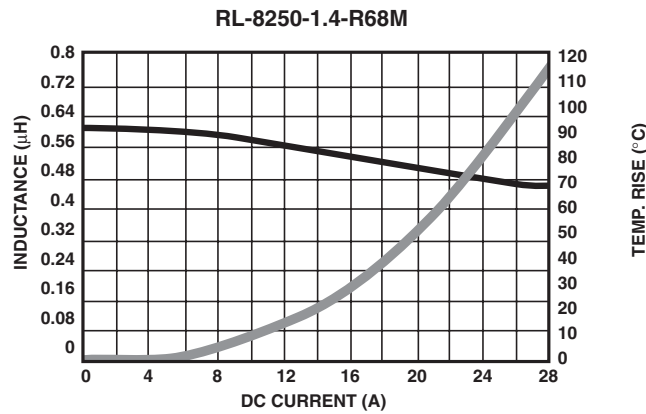
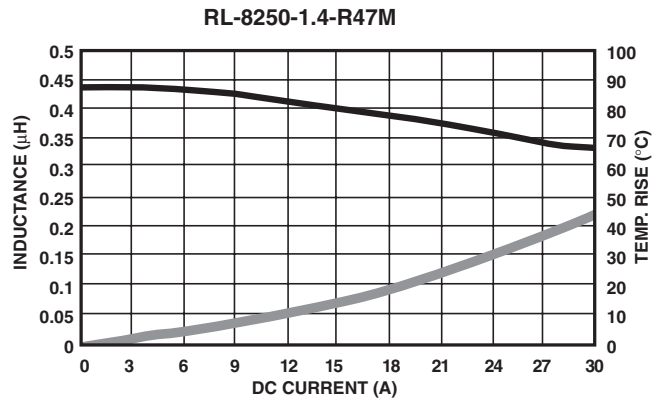
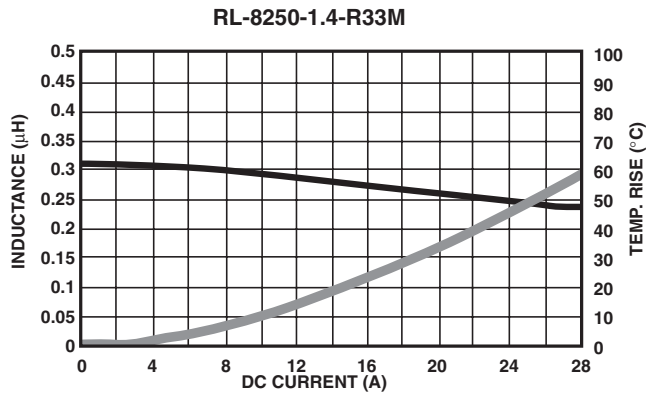
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# RL-8250-1.4

INDUCTANCE ( $\mu\text{H}$ )  
 TEMP. RISE ( $^{\circ}\text{C}$ )



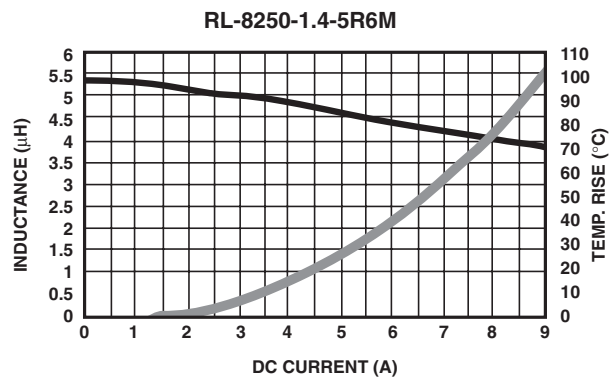
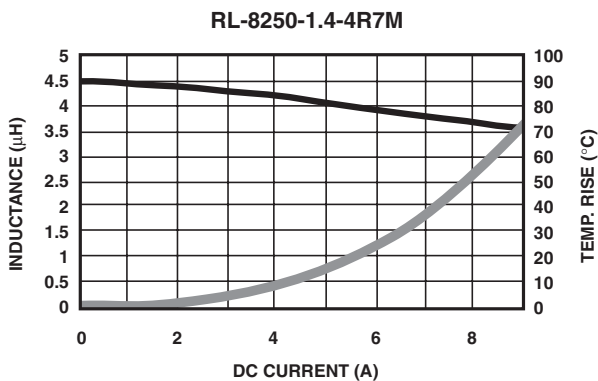
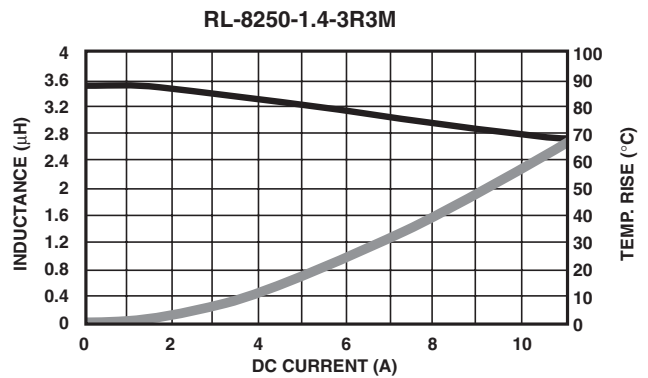
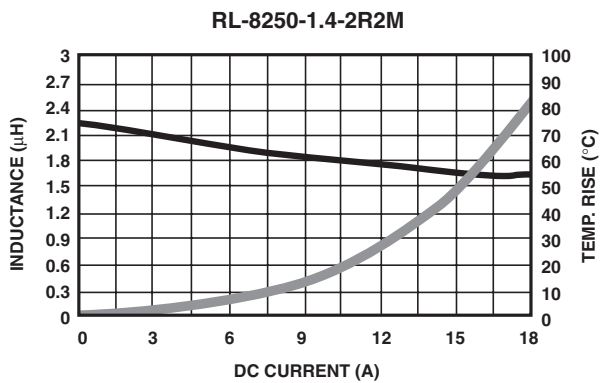
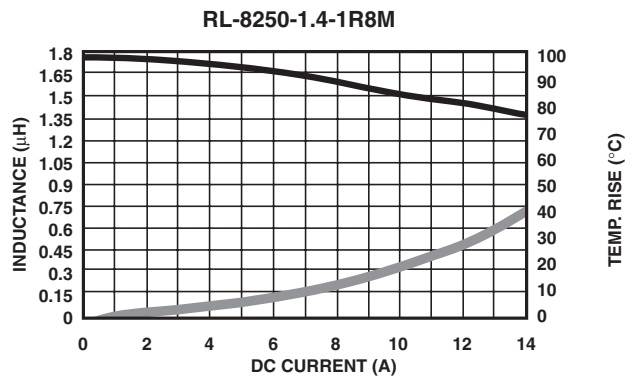
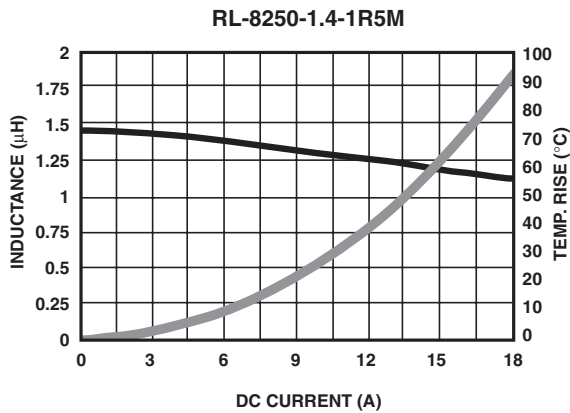
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 INDUCTANCE ( $\mu\text{H}$ )  
 TEMP. RISE ( $^{\circ}\text{C}$ )



# RENCO ELECTRONICS, INC.

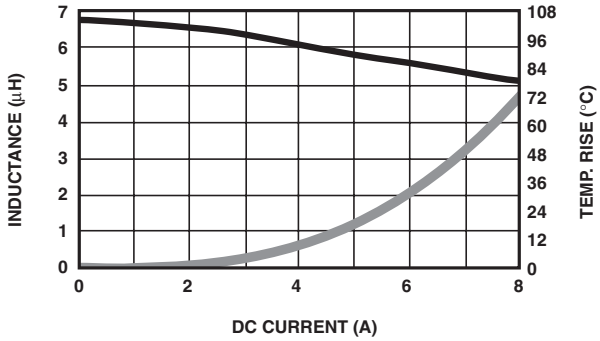
✉ 595 International Place, Rockledge, FL 32955-4200 USA

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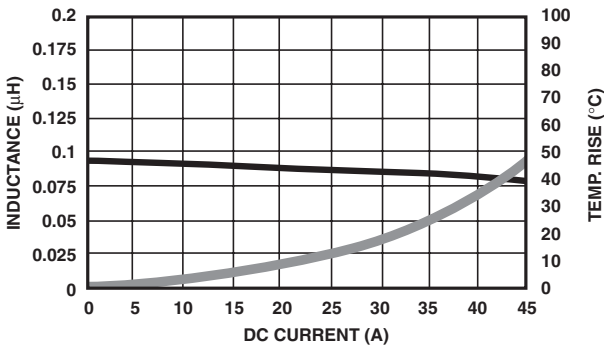


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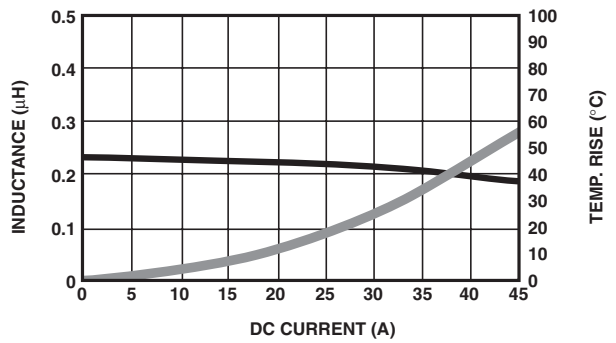


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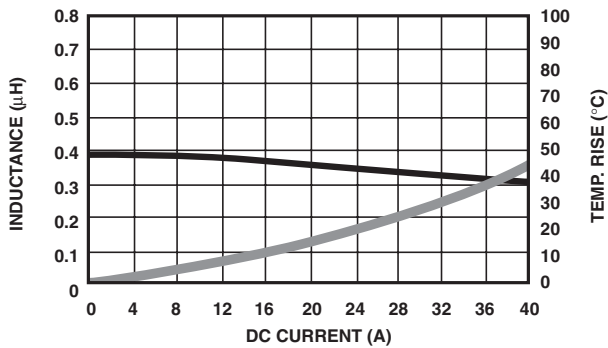
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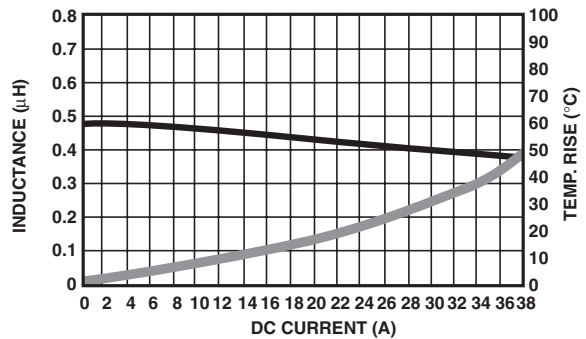
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**RL-8250-1.5-R36M**



**RL-8250-1.5-R47M**

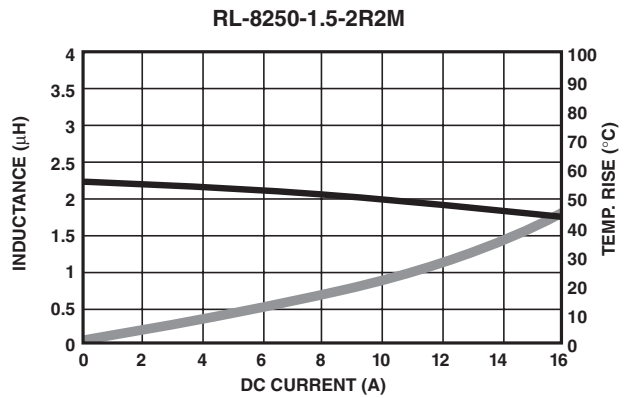
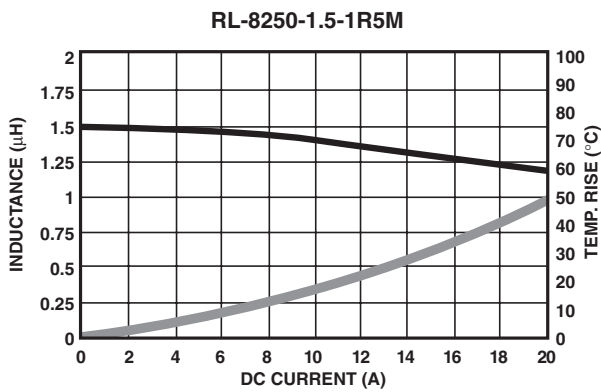
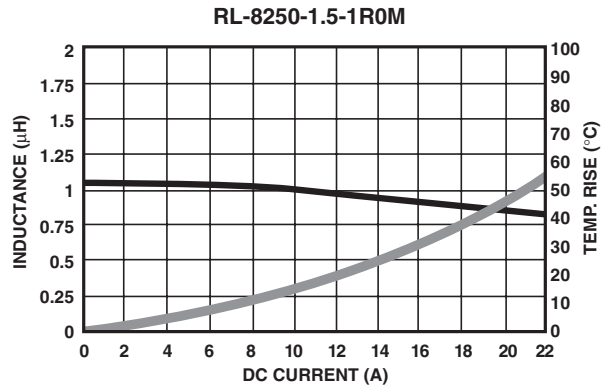
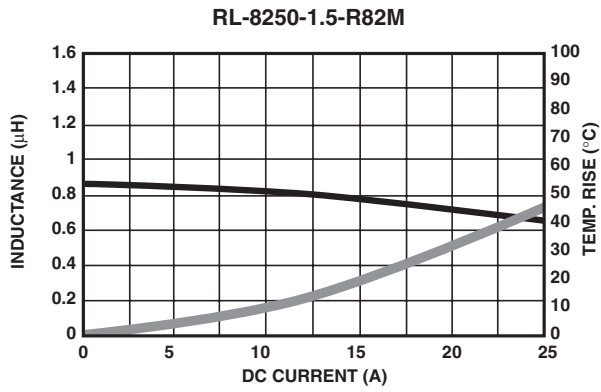
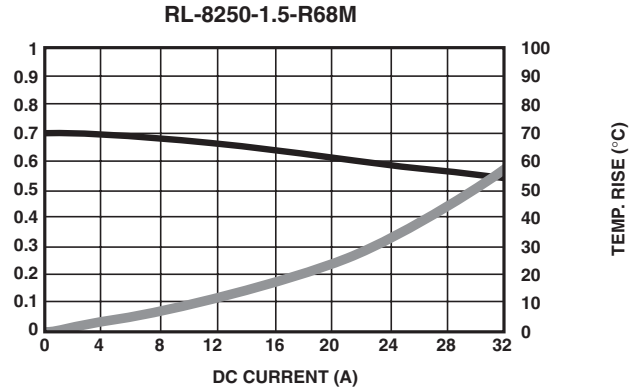
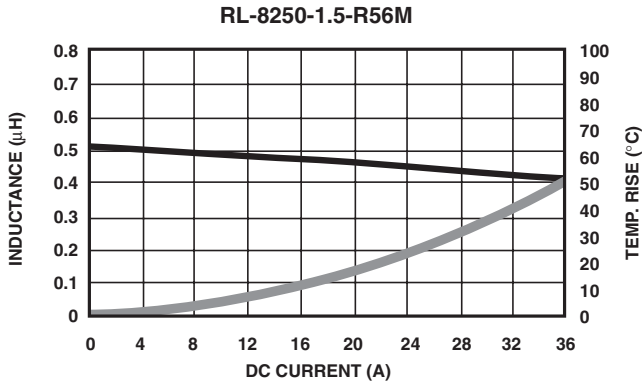


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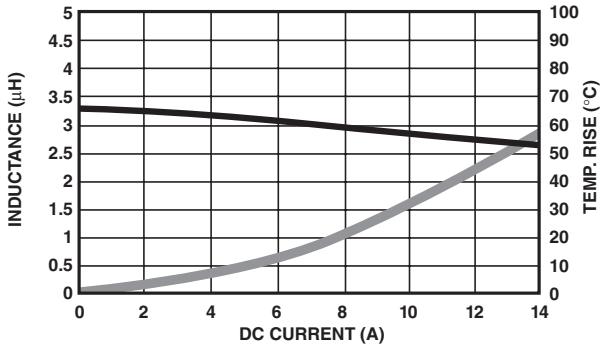
✉ 595 International Place, Rockledge, FL 32955-4200 USA

☎ (321) 637-1000 • Toll Free Engineering Hot line 800-645-5828

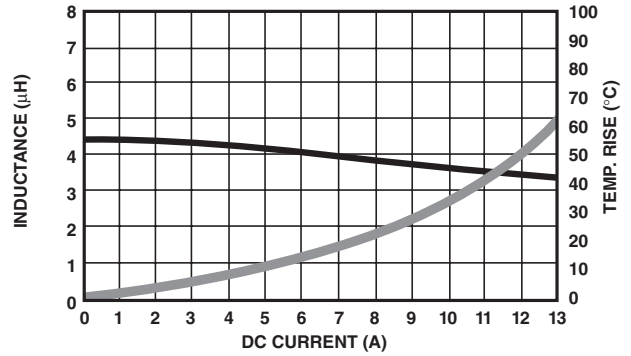
**SINCE 1955** 📠 Fax: (321) 637-1600 🌐 Web Site: [www.rencousa.com](http://www.rencousa.com) ✉ E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)

INDUCTANCE ( $\mu\text{H}$ )  
 TEMP. RISE ( $^{\circ}\text{C}$ )

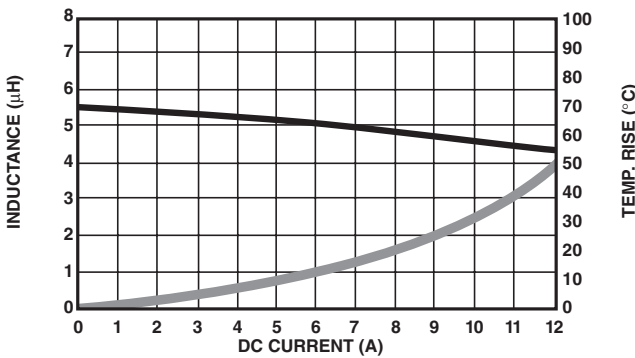
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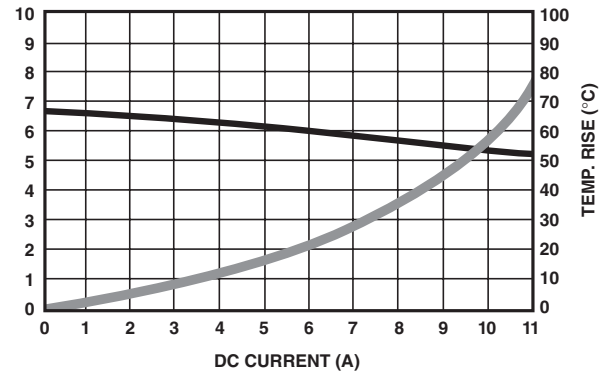
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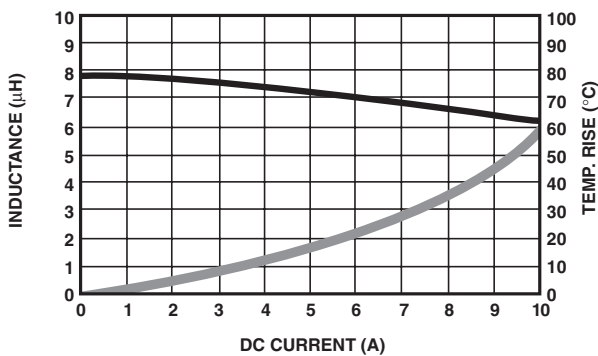
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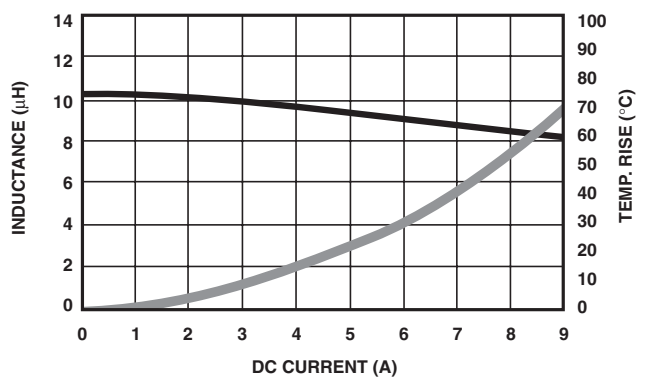
**RL-8250-1.5-6R8M**



**RL-8250-1.5-8R2M**



**RL-8250-1.5-10R0M**



**RENCO ELECTRONICS, INC.**

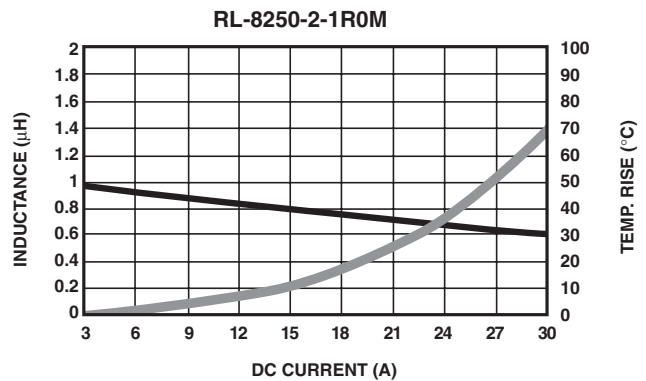
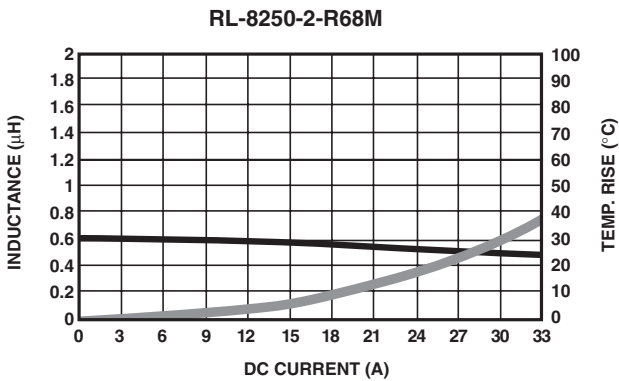
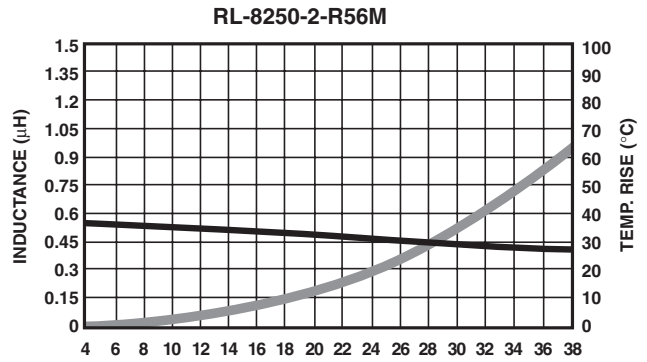
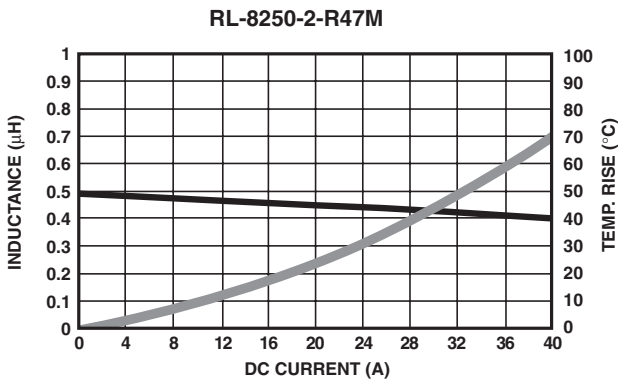
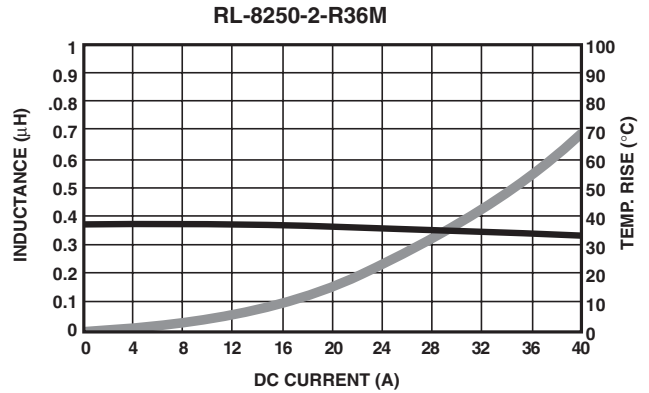
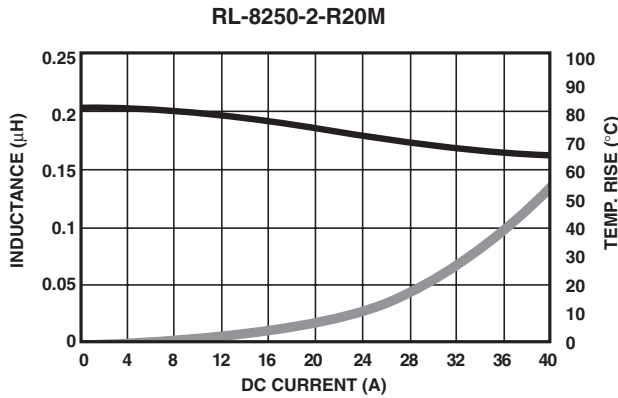
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# RL-8250-2

— INDUCTANCE ( $\mu\text{H}$ )  
 — TEMP. RISE ( $^{\circ}\text{C}$ )



## RENCO ELECTRONICS, INC.

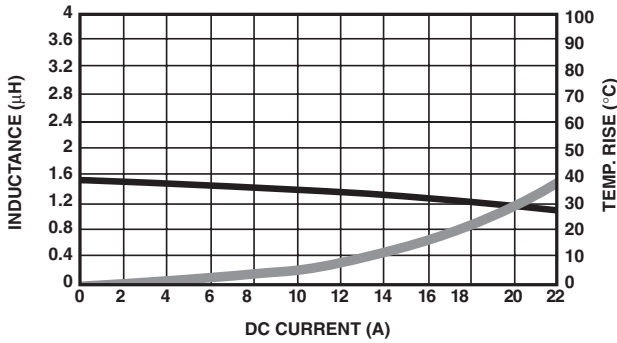
✉ 595 International Place, Rockledge, FL 32955-4200 USA

☎ (321) 637-1000 • Toll Free Engineering Hot line 800-645-5828

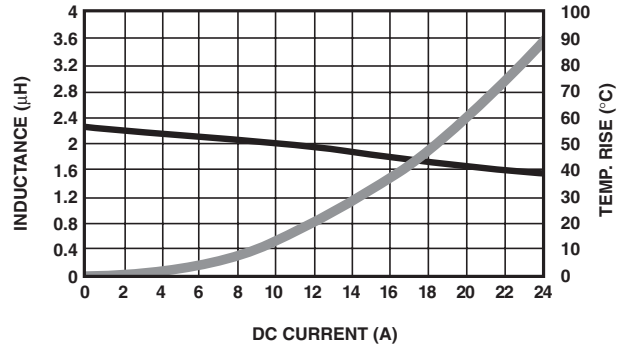
📠 Fax: (321) 637-1600 🌐 Web Site: [www.rencousa.com](http://www.rencousa.com) ✉ E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)



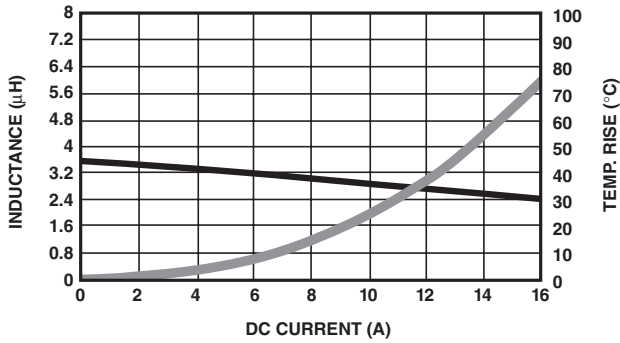
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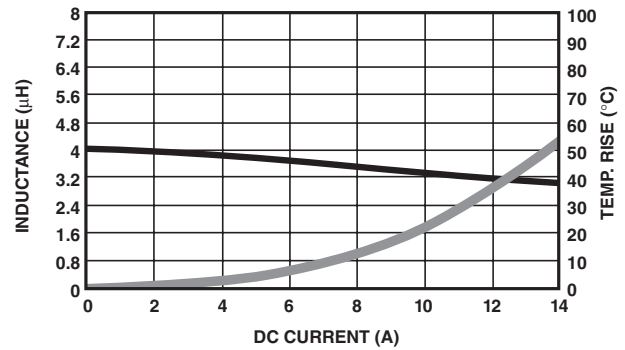
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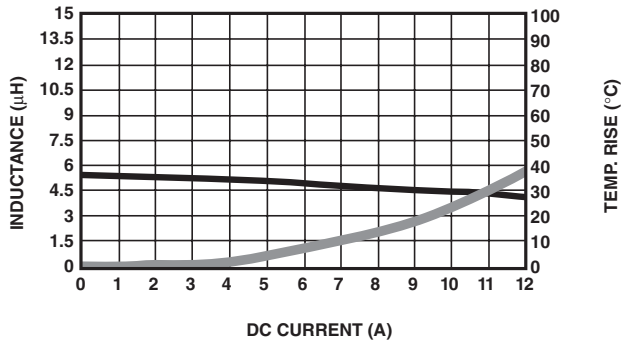
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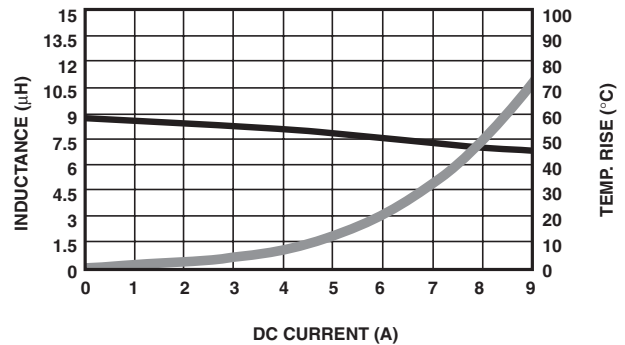
**RL-8250-2-4R7M**



**RL-8250-2-5R6M**



**RL-8250-2-8R2M**



**RENCO ELECTRONICS, INC.**

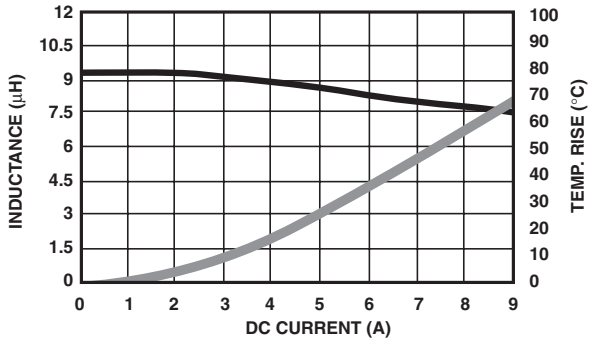
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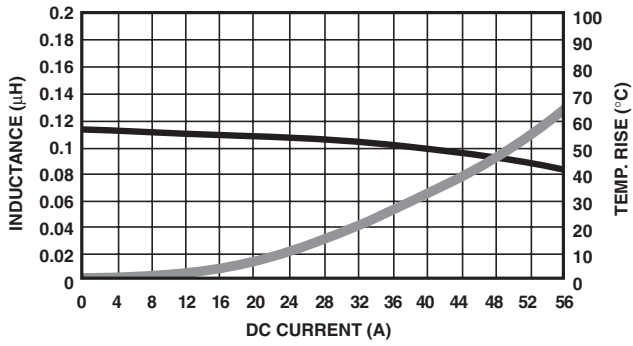
— INDUCTANCE ( $\mu\text{H}$ )  
 — TEMP. RISE ( $^{\circ}\text{C}$ )

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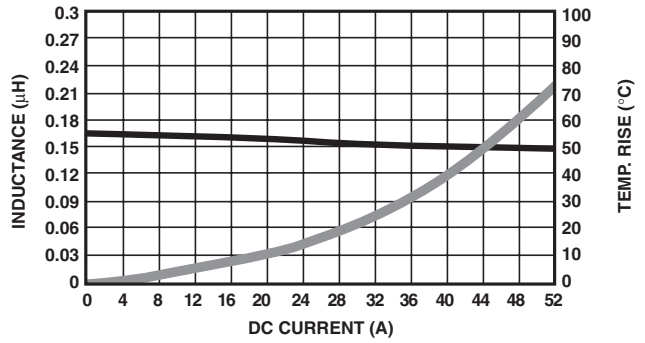


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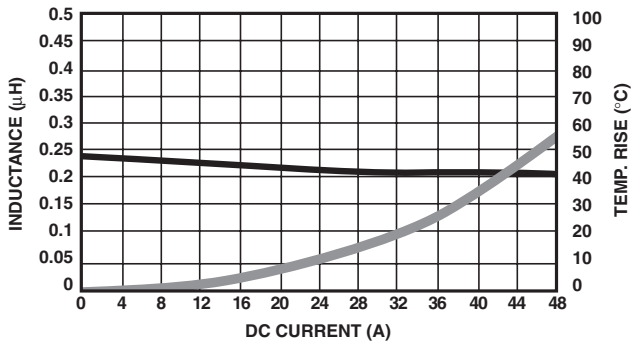
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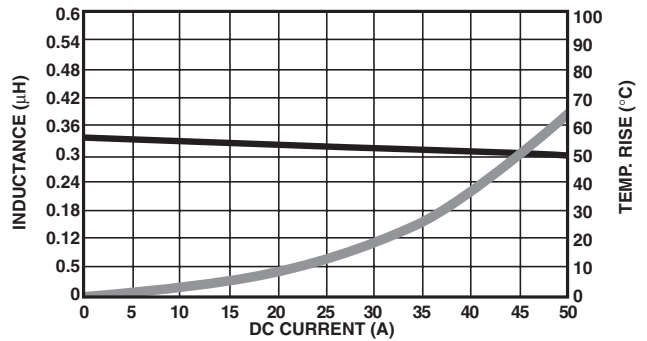
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RL-8250-3-R22M



RL-8250-3-R33M



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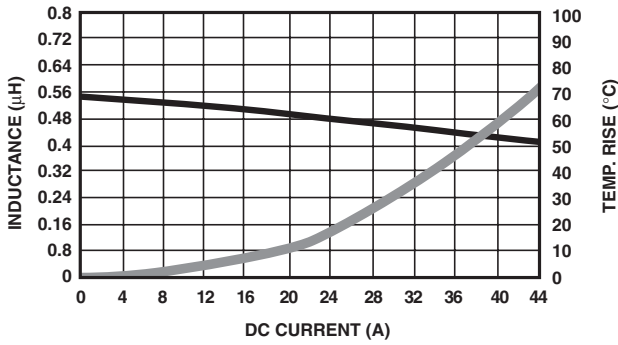
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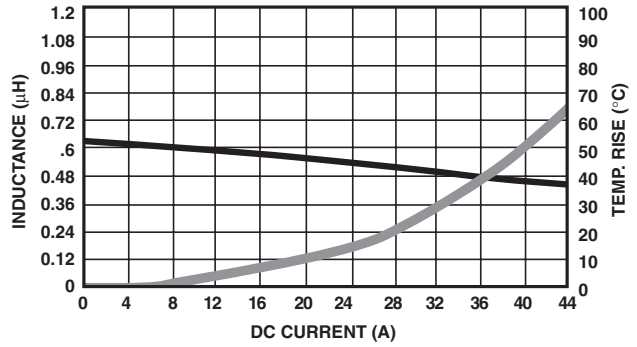
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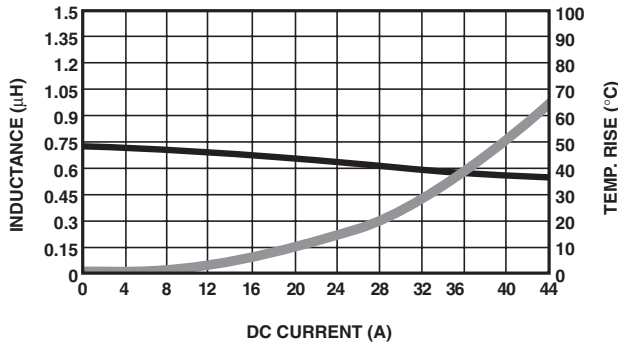
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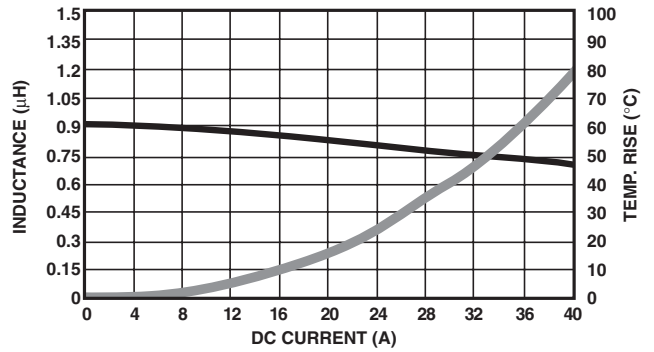
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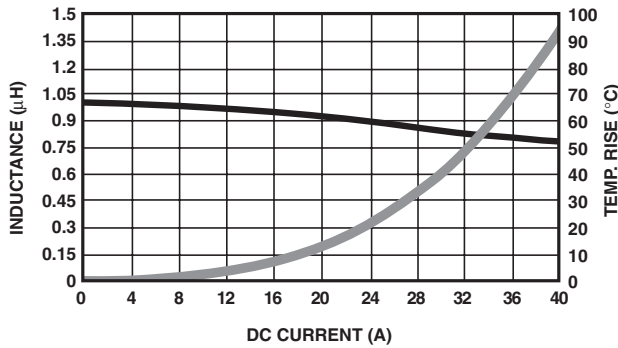
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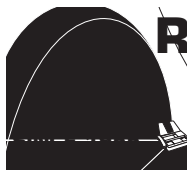
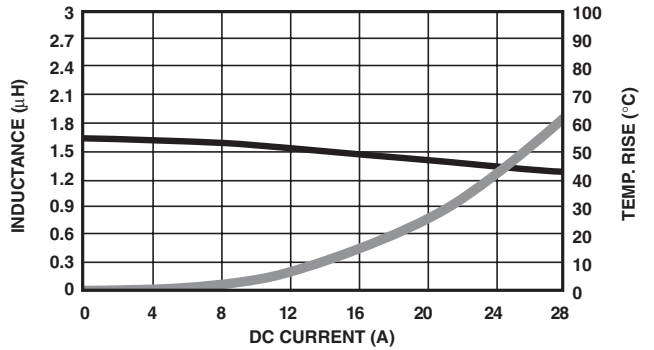
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**RL-8250-3-1R0M**



**RL-8250-3-1R5M**



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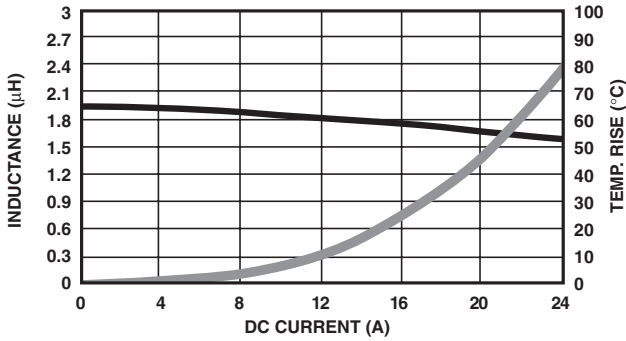
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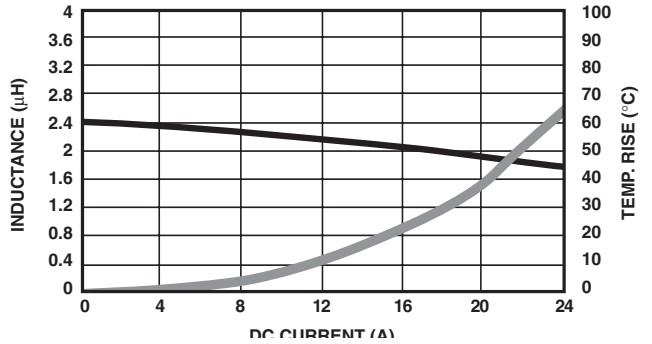
Fax: (321) 637-1001 • www.rencousa.com • E-mail: sales@rencousa.com



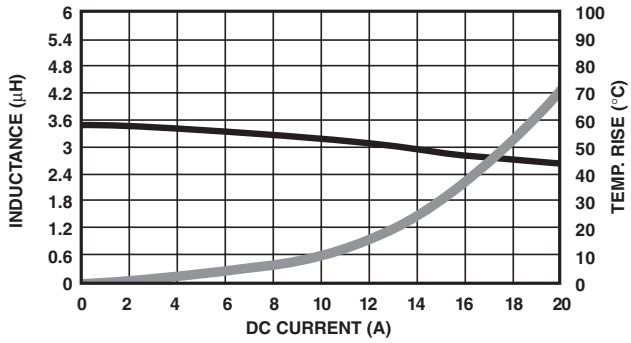
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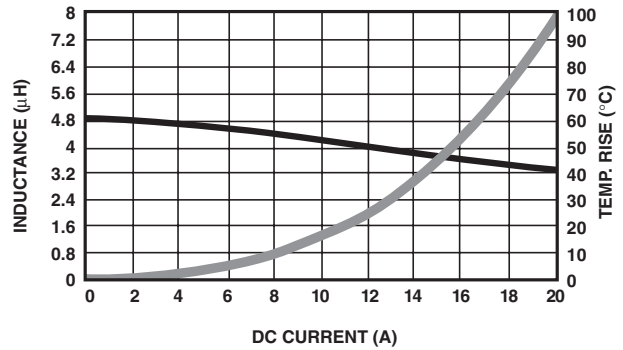
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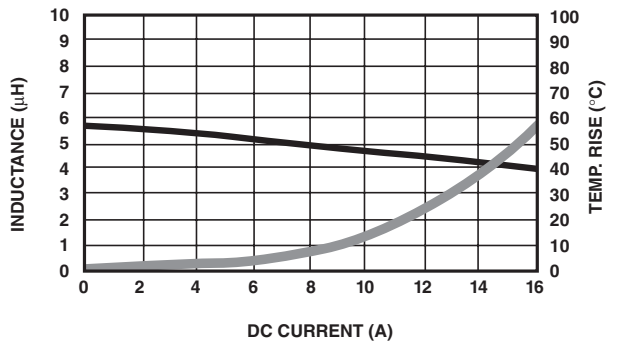
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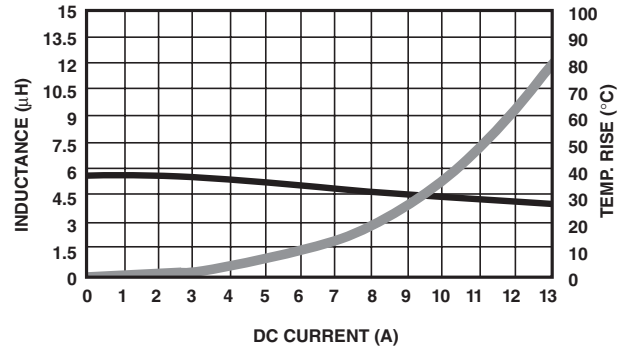
**RL-8250-3-4R7M**



**RL-8250-3-5R6M**



**RL-8250-3-6R8M**



**RENCO ELECTRONICS, INC.**

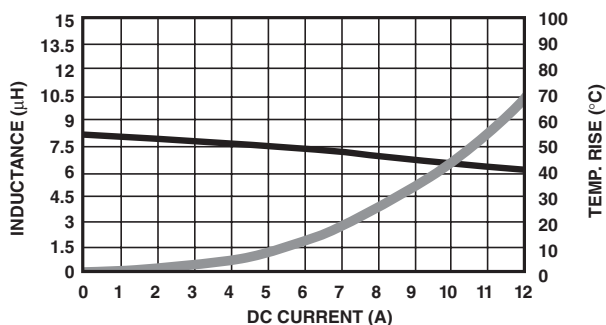
✉ 595 International Place, Rockledge, FL 32955-4200 USA

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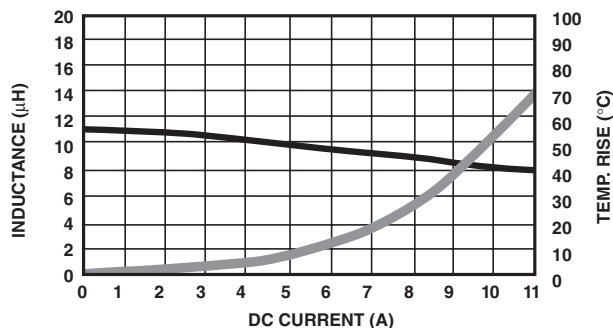
**SINCE 1955** 📠 Fax: (321) 637-1600 🌐 Web Site: [www.rencousa.com](http://www.rencousa.com) ✉ E-mail: [sales@rencousa.com](mailto:sales@rencousa.com)


 INDUCTANCE ( $\mu\text{H}$ )  
 TEMP. RISE ( $^{\circ}\text{C}$ )

RL-8250-3-8R2M

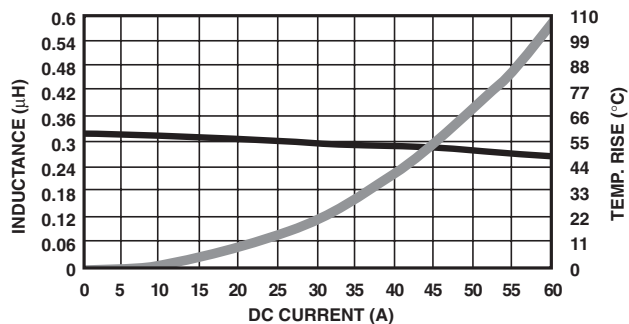


RL-8250-3-100M

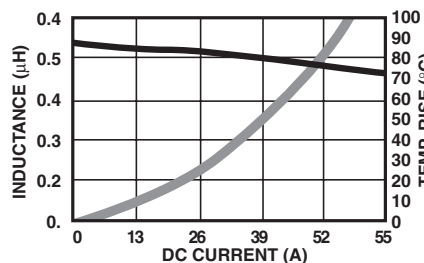


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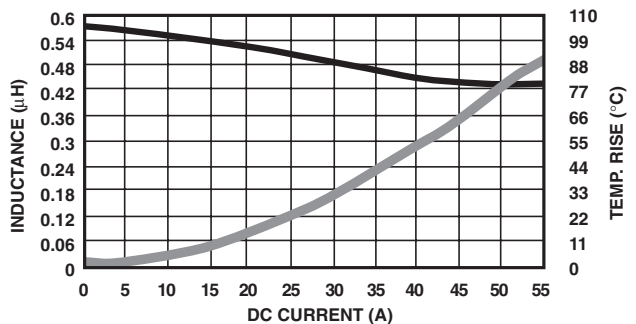
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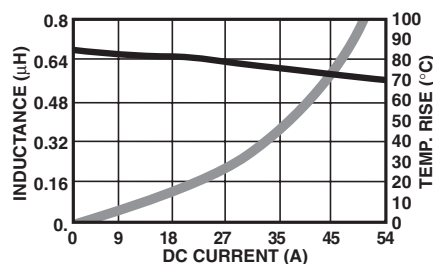
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RL-8250-4-R56M



RL-8250-4-R68M

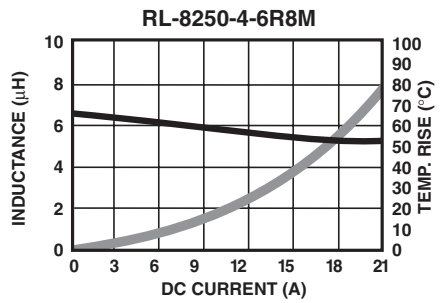
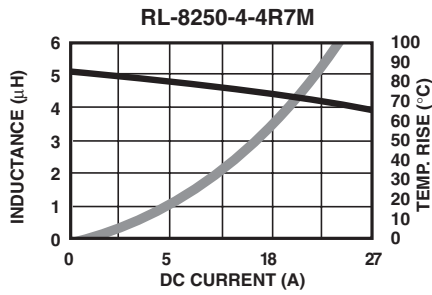
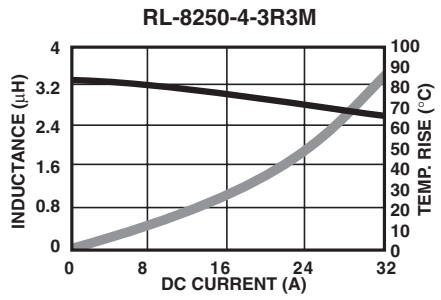
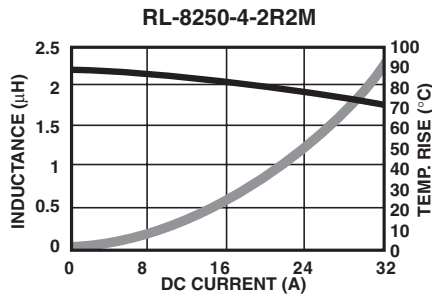
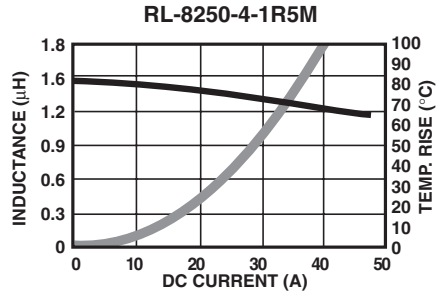
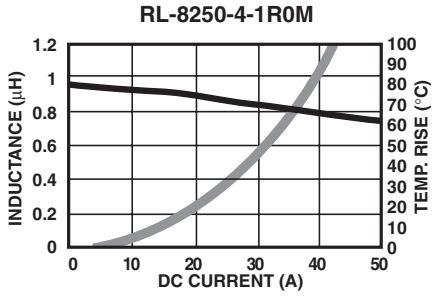


## RENCO ELECTRONICS, INC.

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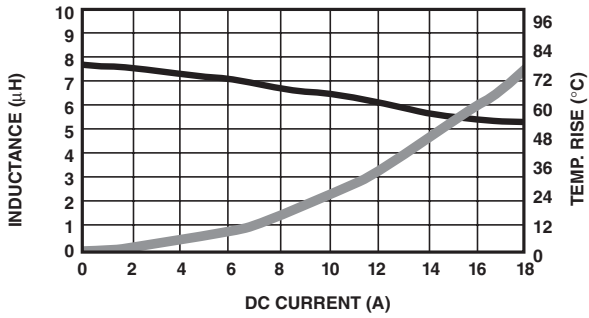
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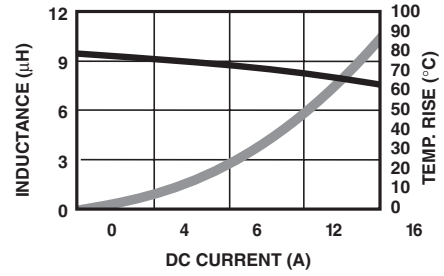
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