

1. PART NO. EXPRESSION :

S D L 1 3 1 0 P - 1 R 0 M F - □□

(a) (b) (c) (d) (e) (f) (g)

(a) Series code

(b) Dimension code

(c) Material code

(d) Inductance code : 1R0 = 1.00uH

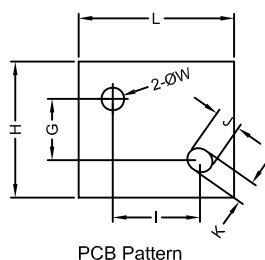
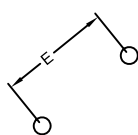
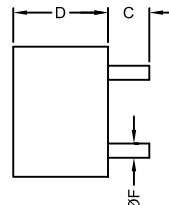
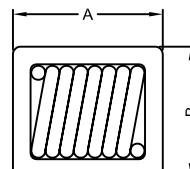
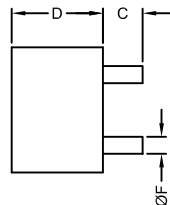
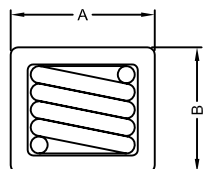
(e) Tolerance code : M = $\pm 20\%$

(f) F : RoHS Compliant

(g) 10 : Standard

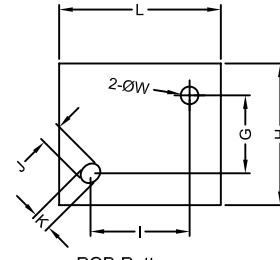
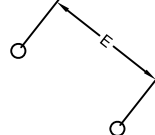
11 ~ 99 : Internal control number

2. CONFIGURATION & DIMENSIONS :



PCB Pattern

Fig1



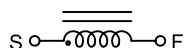
PCB Pattern

Fig2

Unit:m/m

		A	B	C	D	E	F	G	H	I	J	K	L	W
Fig1	1R0	13.5 Max.	12.5 Max.	3.5 $\pm$ 0.5	10.0 Max.	10.2 $\pm$ 0.5	1.5 $\pm$ 0.1	6.7 $\pm$ 0.5	13.2	7.7 $\pm$ 0.5	2	1.8	14.2	1.8
Fig1	1R5	13.5 Max.	12.5 Max.	3.0 $\pm$ 0.5	9.8 $\pm$ 0.5	10.3 $\pm$ 0.5	1.3 $\pm$ 0.1	6.8 $\pm$ 0.5	13.2	7.7 $\pm$ 0.5	1.9	1.6	14.2	1.6
Fig1	2R0	13.5 Max.	12.5 Max.	3.5 $\pm$ 0.5	10.0 Max.	10.5 $\pm$ 0.5	1.1 $\pm$ 0.1	6.8 $\pm$ 0.5	13.2	8.0 $\pm$ 0.5	1.7	1.4	14.2	1.4
Fig2	3R3	13.5 Max.	12.5 Max.	3.3 $\pm$ 0.5	10.0 Max.	10.5 $\pm$ 0.5	1.0 $\pm$ 0.1	7.0 $\pm$ 0.5	13.2	7.8 $\pm$ 0.5	1.6	1.3	14.2	1.3
Fig2	4R7	13.5 Max.	12.5 Max.	3.5 $\pm$ 0.5	10.0 Max.	10.6 $\pm$ 0.5	0.8 $\pm$ 0.1	7.4 $\pm$ 0.5	13.2	7.6 $\pm$ 0.5	1.4	1.1	14.2	1.1

3. SCHEMATIC :



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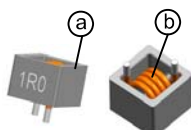
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PG. 1

4. MATERIALS :

(a) Core

(b) Wire



5. GENERAL SPECIFICATION :

(a) Operating temp. : -40° C to +125° C

(b) Storage condition (component in its packaging)

i) Temperature : -10 to 40° C

ii) Humidity : 60%

6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance L ₀ (μ H) $\pm 20\%$ @ 0 A	Test Frequency (Hz)	DCR (m Ω)	Isat (A) Typ.	IDC (A) Typ.
SDL1310P-1R0MF	1.0	1V / 100K	1.15 $\pm$ 8%	42.0	32.0
SDL1310P-1R5MF	1.5	1V / 100K	1.85 $\pm$ 8%	42.0	26.0
SDL1310P-2R0MF	2.0	1V / 100K	3.50 Max.	35.0	21.0
SDL1310P-3R3MF	3.3	1V / 100K	5.00 Max.	22.0	17.0
SDL1310P-4R7MF	4.7	1V / 100K	8.60 Max.	17.0	12.0



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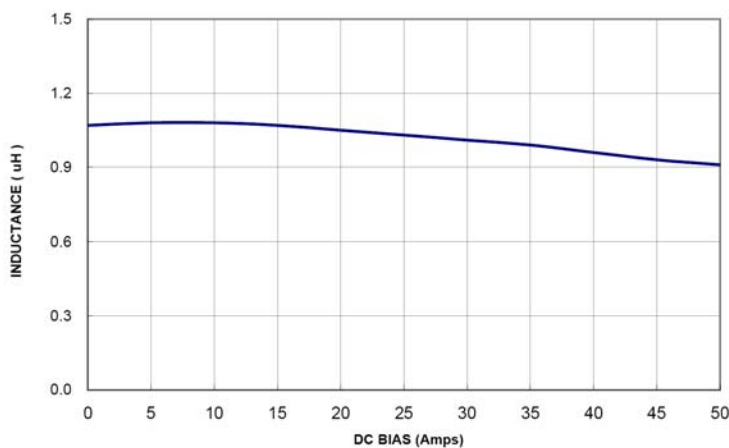
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PG. 2

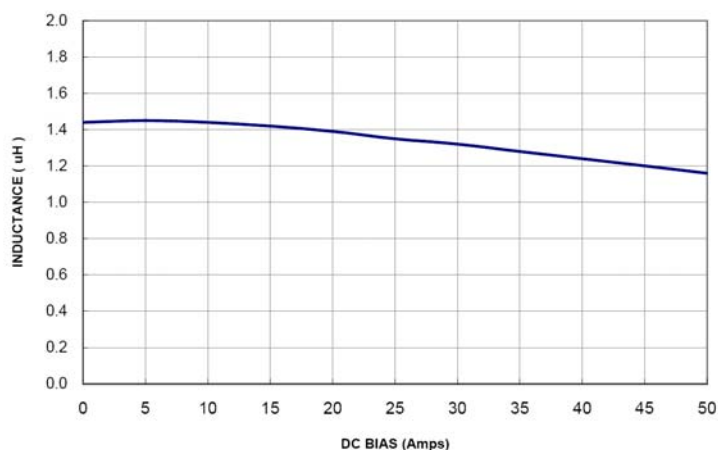
7. CHARACTERISTICS CURVES :

7.1 INDUCTANCE (μH) VS DC BIAS (Amps)

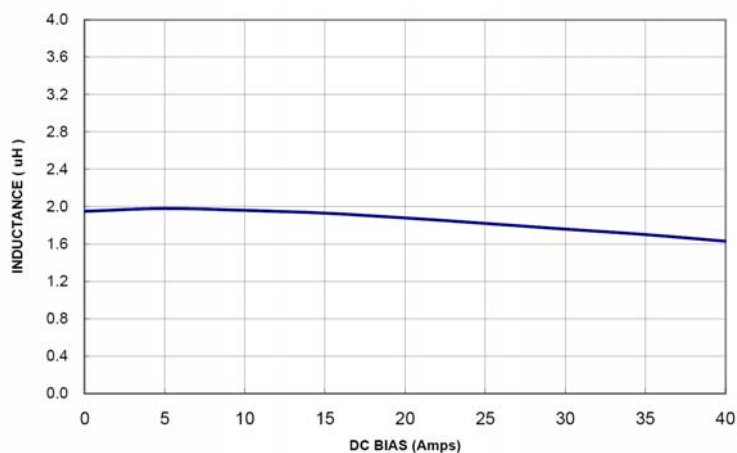
SDL1310P-1R0MF



SDL1310P-1R5MF



SDL1310P-2R0MF



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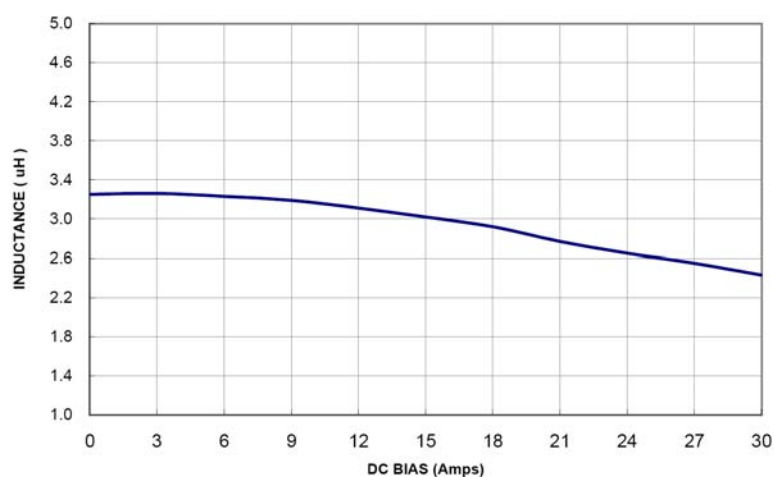
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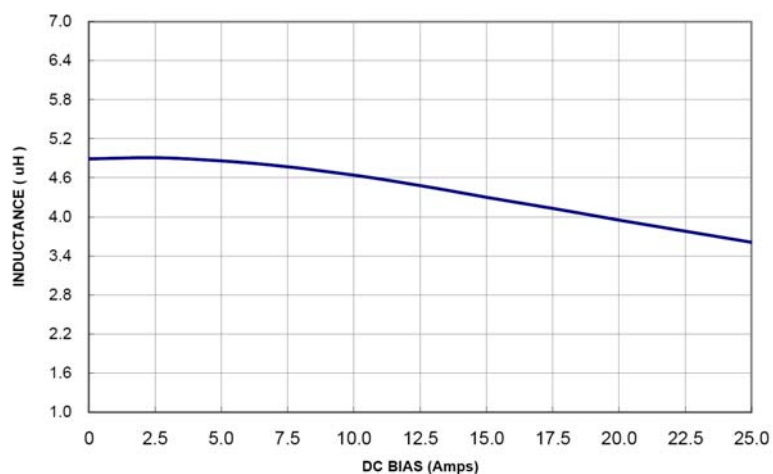
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PG. 3

SDL1310P-3R3MF



SDL1310P-4R7MF



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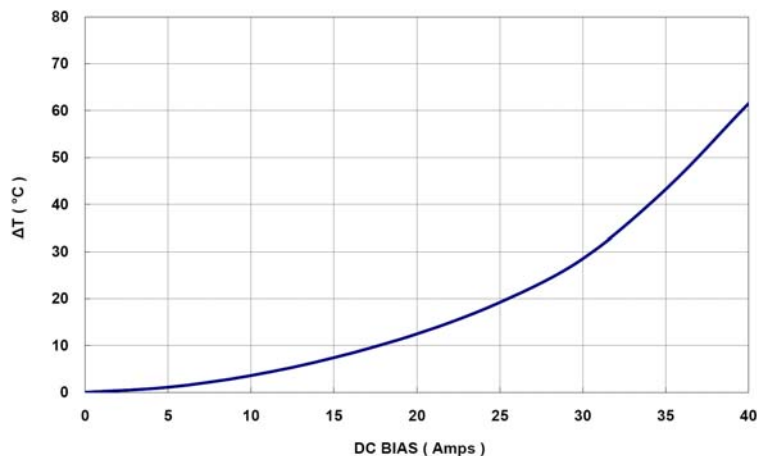
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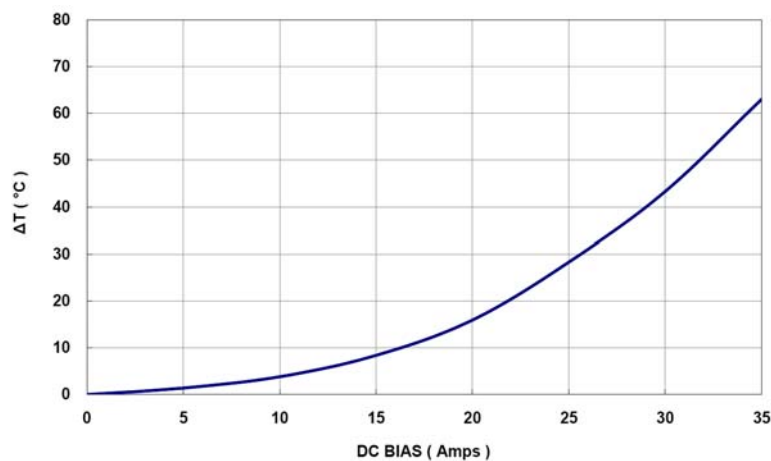
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7.2 TEMPERATURE RISE ΔT ($^{\circ}\text{C}$) VS DC BIAS (Amps)

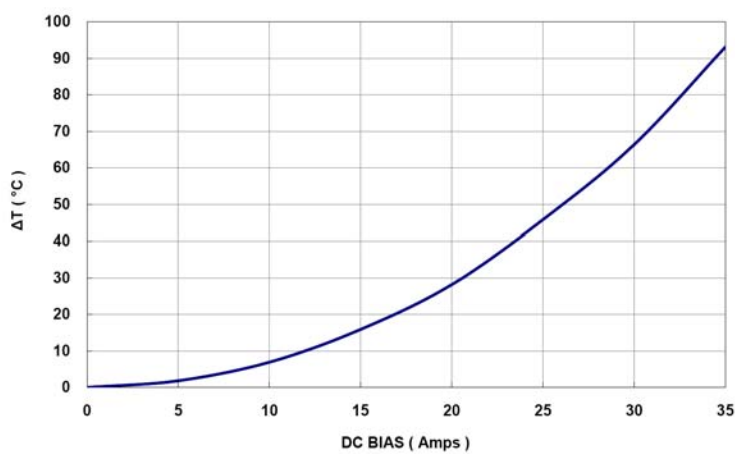
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SDL1310P-1R5MF



SDL1310P-2R0MF



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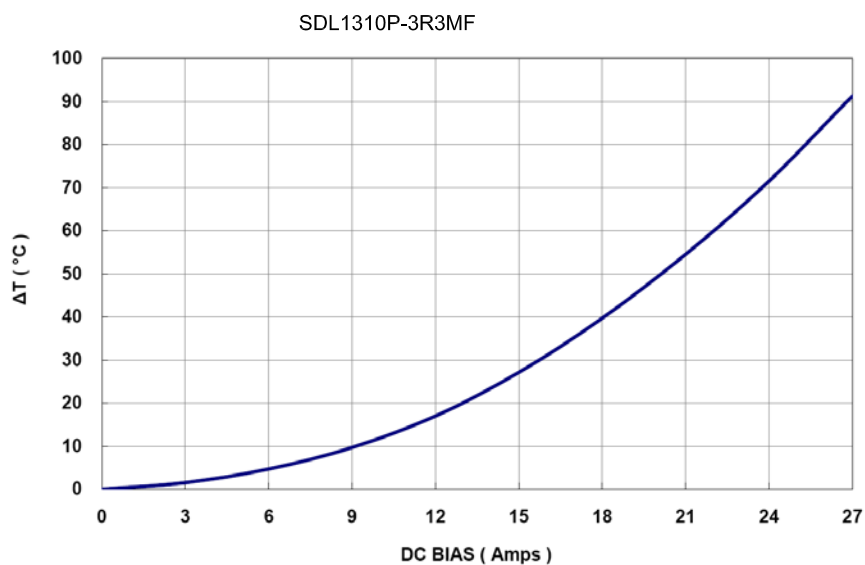
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PG. 6

8. SOLDERING CONDITIONS :

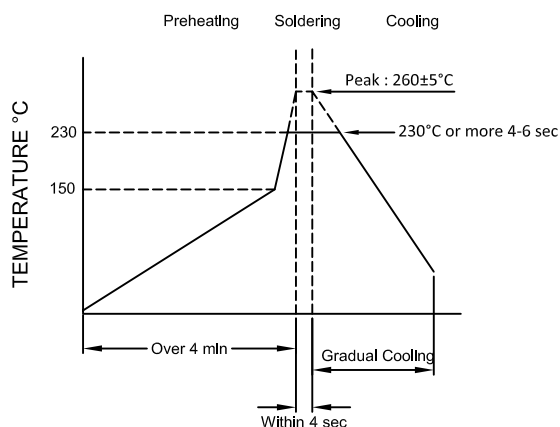


Figure 1. Wave Soldering

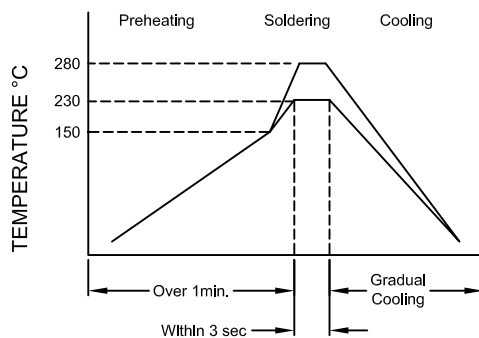


Figure 2. Hand Soldering



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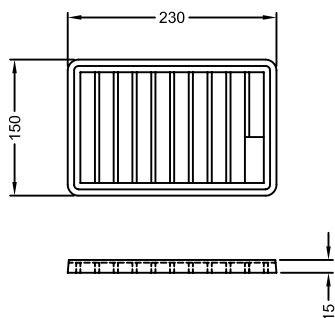
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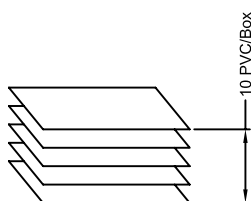
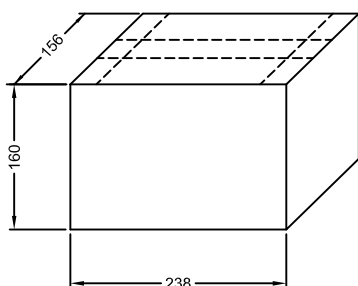
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PG. 7

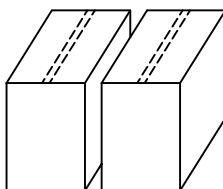
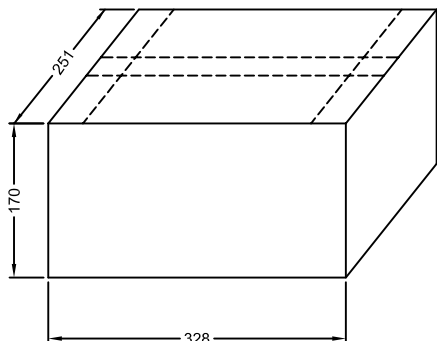
9. PACKAGING INFORMATION :



PVC Size : 230x150x15 mm
Quantity : 100/PVC



Inbox size : 238x156x160 mm
Quantity : 10PVC/Box



Outbox Size : 328x251x170 mm
Quantity : 2 Inbox/Outbox

Storage

- Recommended products should be used within 6 months from the time of delivery.
- The packaging material should be kept where no chlorine or sulfur exists in the air.

Transportation :

- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- The use of tweezers or vacuum pick up is strongly recommended for individual components.
- Bulk handling should ensure that abrasion and mechanical shock are minimized.



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