

1. PART NO. EXPRESSION :

P I C 0 6 1 5 H 1 R 0 M F - □ □
 (a) (b) (c) (d) (e)(f) (g)

(a) Series code

(b) Dimension code

(c) Type code

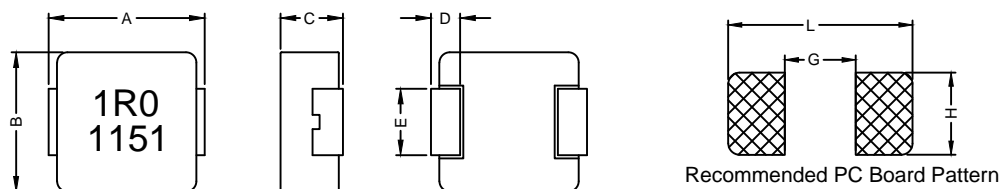
(d) Inductance code : 1R0 = 1.0uH

(e) Tolerance code : M = $\pm 20\%$, Y = $\pm 30\%$

(f) F : RoHS Compliant

(g) 11~99 : Internal controlled number

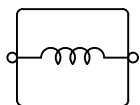
2. CONFIGURATION & DIMENSIONS :



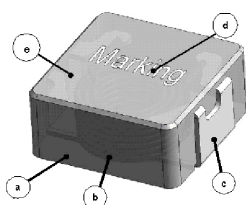
Unit:m/m

A	B	C	D	E	G	H	L
7.0 \pm 0.3	6.6 \pm 0.3	1.3 \pm 0.2	1.8 \pm 0.3	3.0 \pm 0.3	2.5	3.5	7.7

3. SCHEMATIC :



4. MATERIALS :



(a) Core

(b) Wire

(c) Terminal

(d) Ink

(e) Paint



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5. GENERAL SPECIFICATION :

- a) Test Freq. : L : 100KHz/1.0V
- b) Operating Temp. : -40°C to +125°C
- c) Storage Temp. : -40°C to +125°C
- d) Humidity Range : 85 ± 3% RH
- e) Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt of 40°C (keep 1min)
- f) Saturation Current (Isat) will cause L0 to drop 20%.
- g) Part Temperature (Ambient+Temp. Rise) : Should not exceed 125°C under worst case operating conditions.
- h) Storage condition (component in its packaging)
 - i) Temperature: -10 to 40°C
 - ii) Humidity : 50~60% RH

6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance L ₀ (μ H) @ 0 A	Irms (A) Typ.	Isat (A) Typ.	DCR (m Ω) Typ. @ 25°C	DCR (m Ω) Max. @ 25°C
PIC0615HR15MF	0.15	16	25	3.7	4.5
PIC0615HR22YF	0.22	14	22	4.3	5.2
PIC0615HR33MF	0.33	11	18	6.6	7.6
PIC0615HR47MF	0.47	9.5	16	9.0	10.3
PIC0615HR56MF	0.56	9	15.5	12.5	14
PIC0615HR68MF	0.68	7.5	15	13.8	15.2
PIC0615HR82MF	0.82	7	14	20	24
PIC0615H1R0MF	1.00	6.5	12	23	25.8
PIC0615H1R2MF	1.20	5.6	10.5	29.0	34
PIC0615H1R5MF	1.50	5.0	9.5	37	42.5
PIC0615H2R2MF	2.20	4.5	6.5	48	55
PIC0615H3R3MF	3.30	4.2	6.0	62	74
PIC0615H4R7MF	4.70	3.8	5.0	96	111
PIC0615H5R6MF	5.60	3.0	4.5	115	138
PIC0615H6R8MF	6.80	2.6	3.5	128	148
PIC0615H8R2MF	8.20	2.4	3.2	153	184
PIC0615H100MF	10.0	2.3	2.8	180	216
PIC0615H220MF	22.0	1.5	2.5	420	504

Tolerance : M = $\pm 20\%$, Y = $\pm 30\%$ **RoHS Compliant**

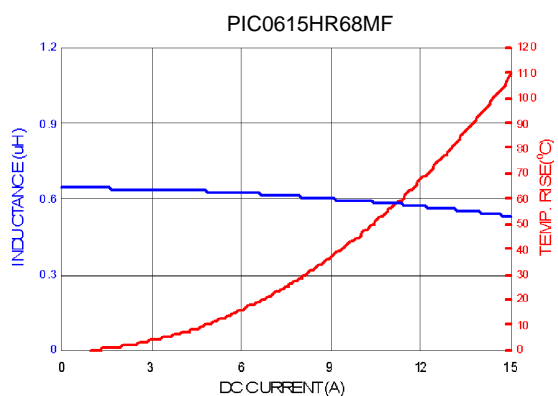
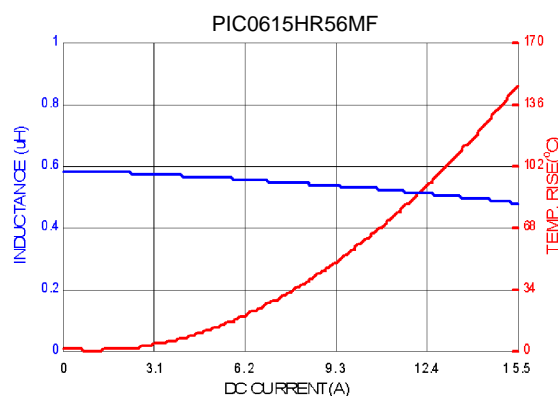
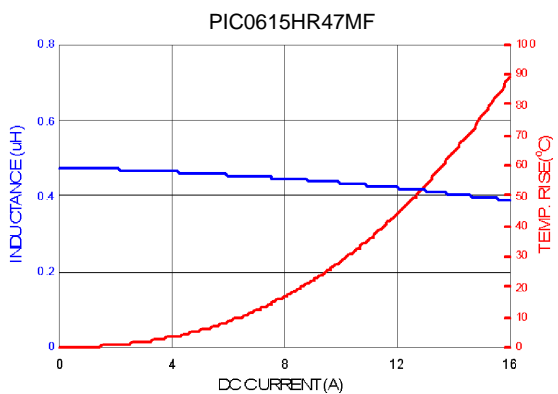
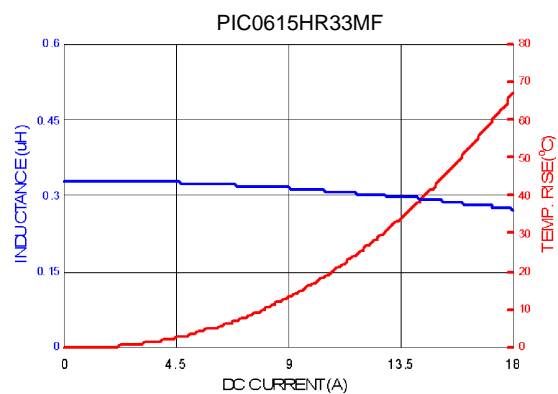
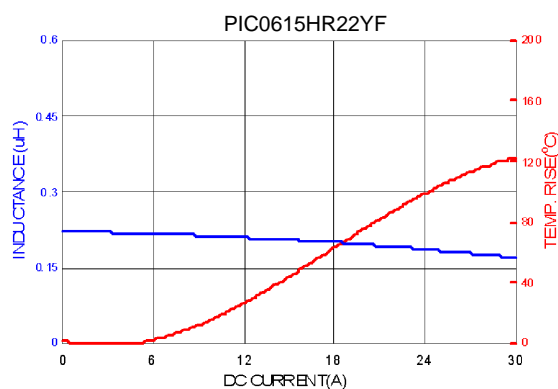
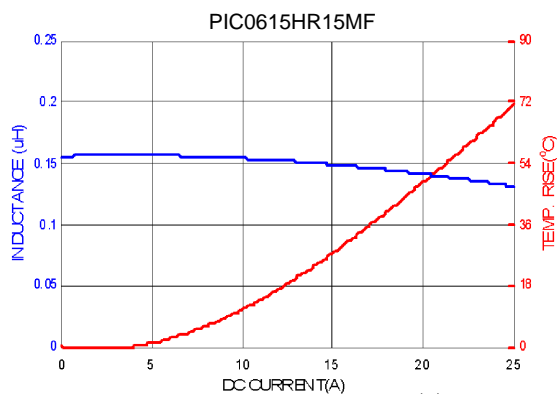
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7. CHARACTERISTICS CURVES :



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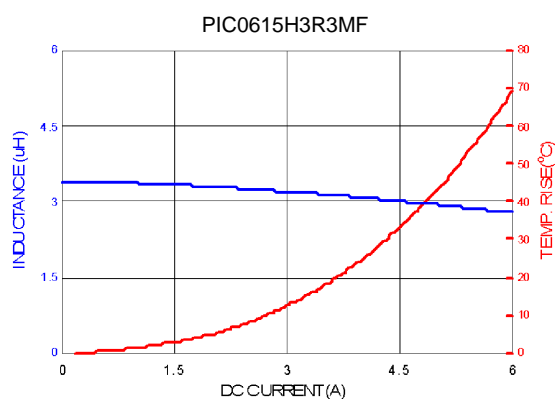
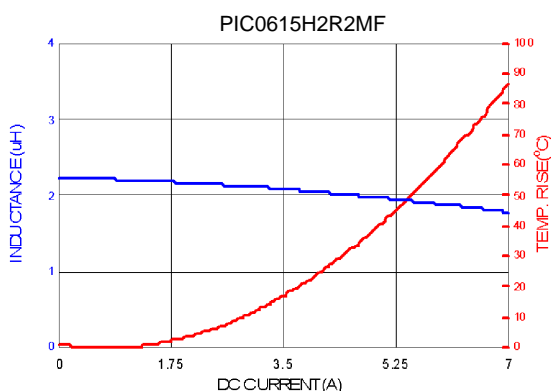
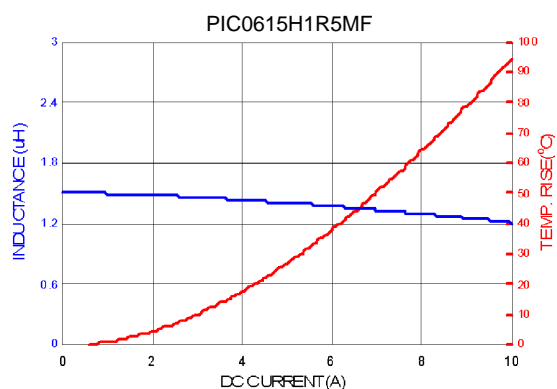
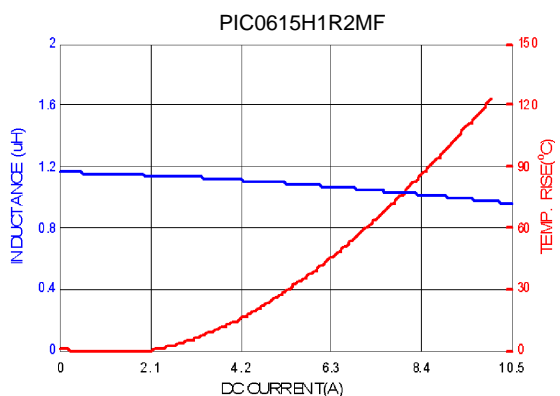
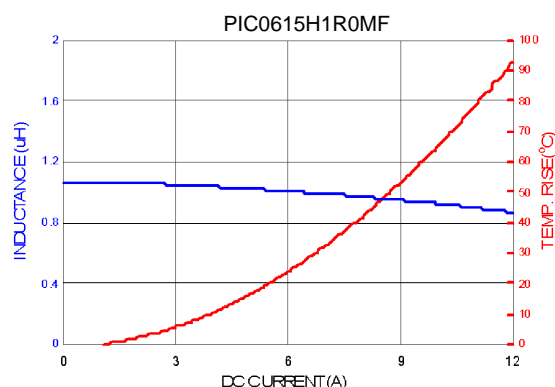
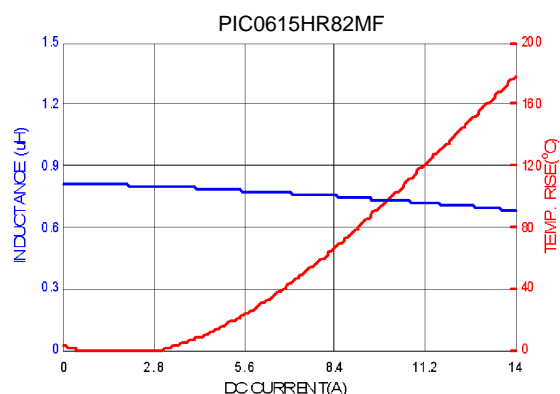
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7. CHARACTERISTICS CURVES :



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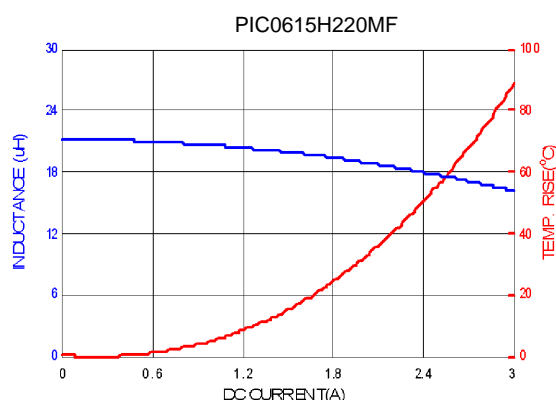
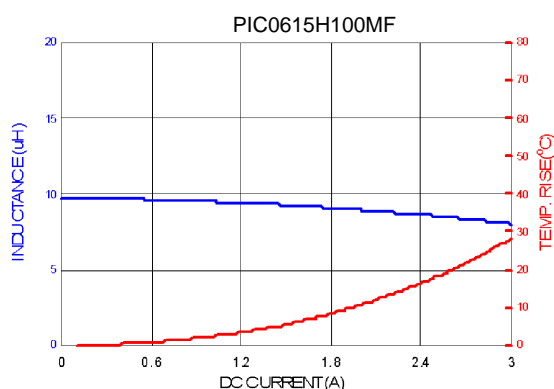
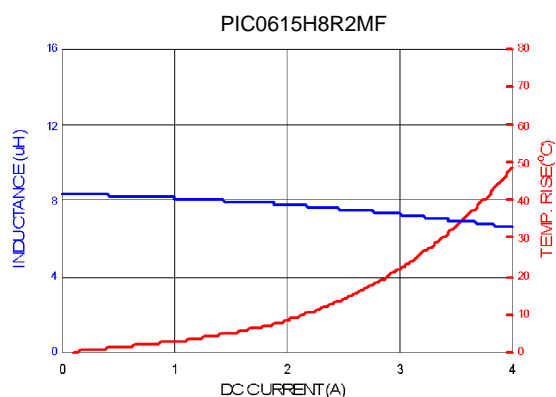
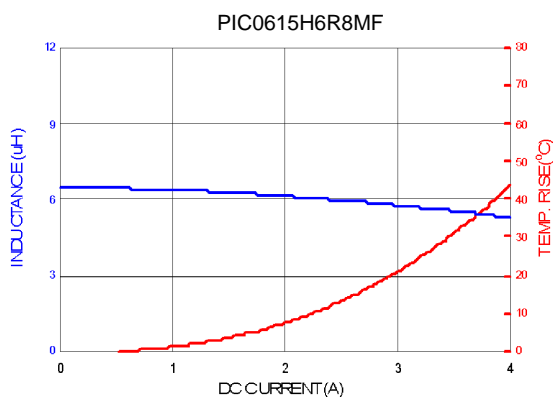
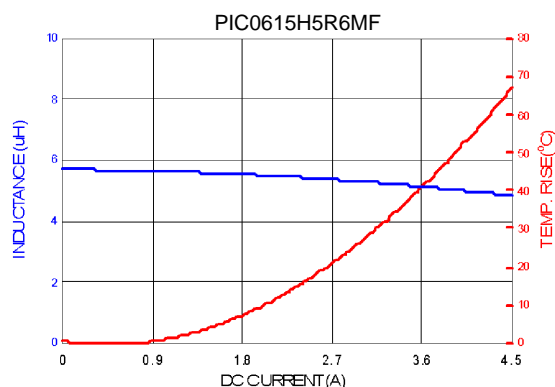
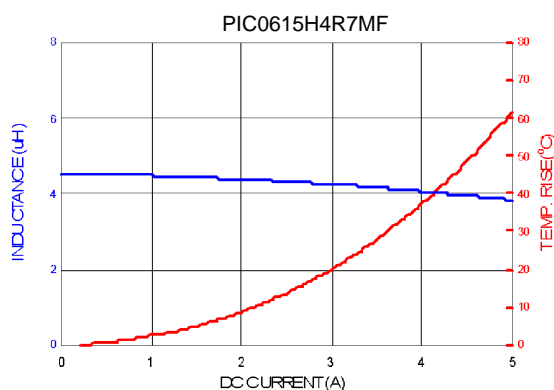
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8. SOLDERING :

Mildly activated rosin fluxes are preferred. The minimum amount of solder can lead to damage from the stresses caused by the difference in coefficients of expansion between solder, chip and substrate. Our terminations are suitable for all re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

8-1.1 Solder Re-flow :

Recommended temperature profiles for re-flow soldering in Figure 1.

8-1.2 Soldering Iron (Figure 2) :

Products attachment with soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

Note :

- Preheat circuit and products to 150°C.
- 355°C tip temperature (max)
- Never contact the ceramic with the iron tip
- 1.0mm tip diameter (max)
- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 4~5 secs.

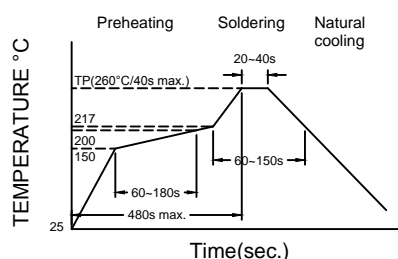


Figure 1. Re-flow Soldering: 3 times max.

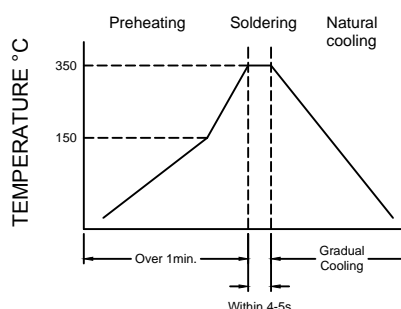


Figure 2. Hand Soldering: 1 times max.

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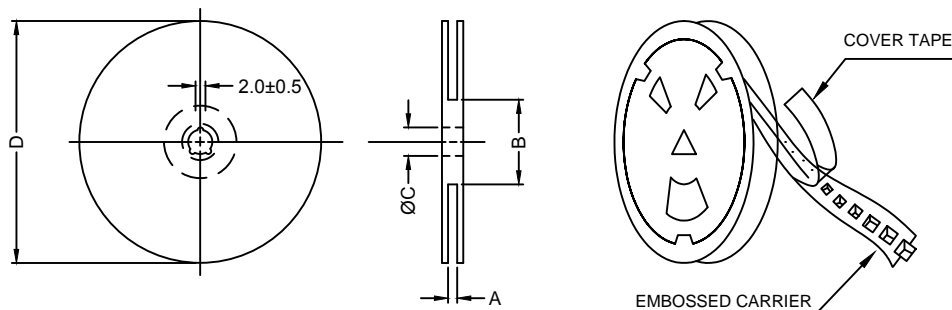


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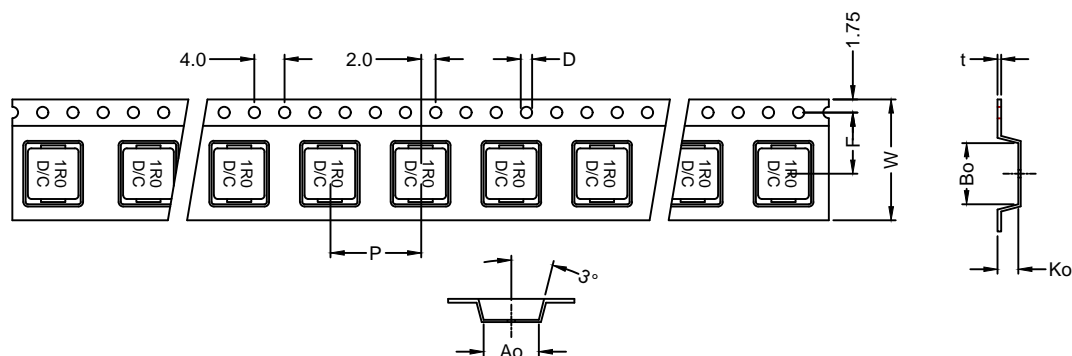
9. PACKAGING INFORMATION :

9-1. Reel Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
13" x 16mm	16.4+2.0/-0	100±2.0	13.5±0.5	330

9-2. Tape Dimension



Series	Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	W(mm)	F(mm)	t(mm)	D(mm)
PIC0615	7.0±0.1	7.7±0.1	1.8±0.1	12.0±0.1	16.0±0.3	7.5±0.1	0.35±0.05	1.5±0.1

9-3. Packaging Quantity

Size	PIC0615
Chip / Reel	2000
Inner Box	4000
Carton	16000



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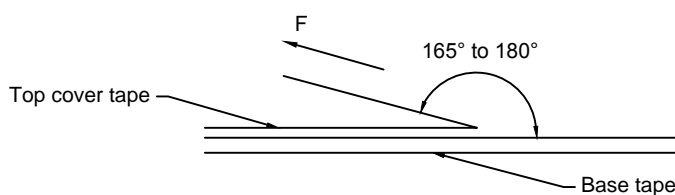


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9-4. Tearing Off Force



The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions. (referenced ANSI/EIA-481-C-2003 of 4.11 standard)

Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed (mm/min)
5~35	45~85	860~1060	300

Application Notice

1. Storage Conditions :

To maintain the solderability of terminal electrodes :

- Recommended products should be used within 12 months from the time of delivery.
- The packaging material should be kept where no chlorine or sulfur exists in the air.

2. Transportation :

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



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