PIC1265HP SERIES

1. PART NO. EXPRESSION:

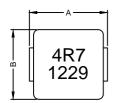
 $\frac{\mathsf{P}\,\mathsf{I}\,\mathsf{C}}{\mathsf{(a)}}\,\frac{\mathsf{1}\,\mathsf{2}\,\mathsf{6}\,\mathsf{5}}{\mathsf{(b)}}\,\frac{\mathsf{H}\,\mathsf{P}}{\mathsf{(c)}}\,\frac{\mathsf{4}\,\mathsf{R}\,\mathsf{7}}{\mathsf{(d)}}\,\frac{\mathsf{M}}{\mathsf{(e)}(\mathsf{f})}\,\frac{\mathsf{F}}{\mathsf{(g)}}\,-\,\frac{\square\,\square}{\mathsf{(g)}}$

- (a) Series code
- (b) Dimension code
- (f) F : RoHS Compliant
- (c) Type code
- (g) 11~99 : Internal controlled number

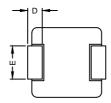
(d) Inductance code: 4R7 = 4.70uH

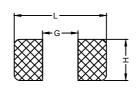
(e) Tolerance code : $M = \pm 20\%$, $Y = \pm 30\%$

2. CONFIGURATION & DIMENSIONS:









Recommended PC Board Pattern

Unit:m/m

А	В	С	D	E	G	Н	L
13.5±0.5	12.5±0.3	6.2±0.3	2.3±0.3	4.7±0.3	8.0	5.0	14.2

3. SCHEMATIC:



4. MATERIALS :



- (a) Core
- (b) Wire
- (c) Terminal
- (d) Ink
- (e) Paint

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

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6. ELECTRICAL CHARACTERISTICS:

Part No.	Inductance Lo (µH) @ 0 A	Irms (A) Typ.	Isat (A) Typ.	DCR (mΩ) Typ. @ 25°C	DCR (mΩ) Max. @ 25°C
PIC1265HPR15MF	0.15	55	118	0.49	0.60
PIC1265HPR22MF	0.22	53	112	0.47	0.60
PIC1265HPR30MF	0.30	48	72	0.6	0.72
PIC1265HPR33MF	0.33	46	68	0.65	0.8
PIC1265HPR36MF	0.36	45	66	0.7	0.9
PIC1265HPR40MF	0.40	44	64	0.7	1.0
PIC1265HPR45MF	0.45	42	63	0.9	1.2
PIC1265HPR47MF	0.47	41	63	0.9	1.2
PIC1265HPR50MF	0.50	40	60	0.92	1.25
PIC1265HPR56MF	0.56	37	58	1.05	1.2
PIC1265HPR68MF	0.68	35	55	1.25	1.5
PIC1265HPR82MF	0.82	33	50	1.5	1.9
PIC1265HP1R0MF	1.00	30	48	1.7	2.3
PIC1265HP1R5MF	1.50	27	45	2.5	3.0
PIC1265HP1R8MF	1.80	24	40	3.6	4.0
PIC1265HP2R2MF	2.20	22	37	3.8	4.2
PIC1265HP3R3MF	3.30	18	30	5.7	6.8
PIC1265HP4R7MF	4.70	13.5	28	7.0	8.4
PIC1265HP5R6MF	5.60	12.5	23	8.5	10
PIC1265HP6R8MF	6.80	11.5	18	9.5	11.5
PIC1265HP7R0MF	7.00	11.2	17.7	10	12.3
PIC1265HP8R2MF	8.20	10.5	16	12	15.5
PIC1265HP100MF	10.0	10.0	15.5	13.2	16.5
PIC1265HP120MF	12.0	9.5	14	16	20
PIC1265HP130MF	13.0	9	13	21	24
PIC1265HP150MF	15.0	9	12.5	23.2	28
PIC1265HP220MF	22.0	9	12	32.5	37
PIC1265HP330MF	33.0	8	11	48	58
PIC1265HP470MF	47.0	6.5	9.5	76	90
PIC1265HP101MF	100	2.5	3.5	180	200

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

Pb

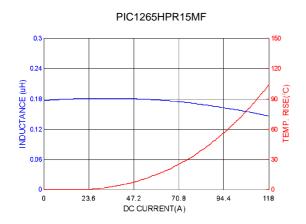
 ${\it NOTE: Specifications \ subject \ to \ change \ without \ notice. \ Please \ check \ our \ website \ for \ latest \ information.}$

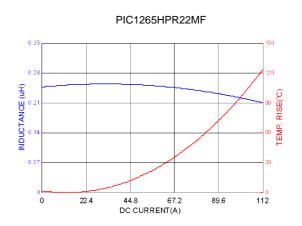


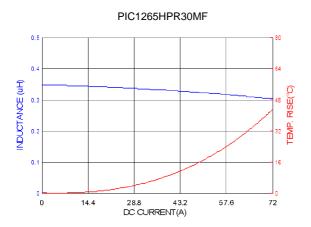


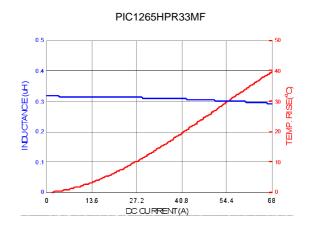
PIC1265HP SERIES

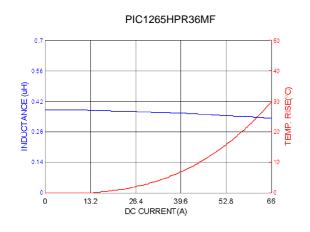
7. CHARACTERISTICS CURVES:













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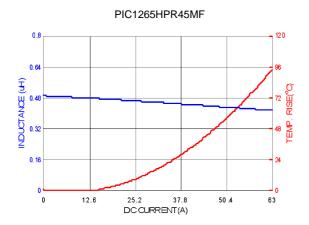
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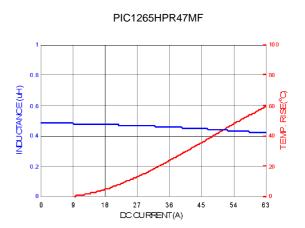


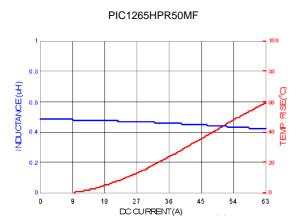
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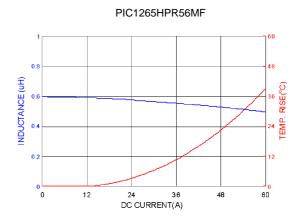
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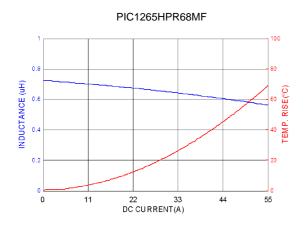
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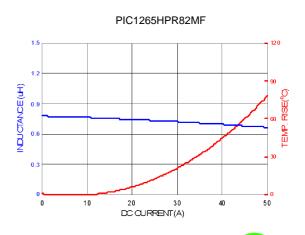














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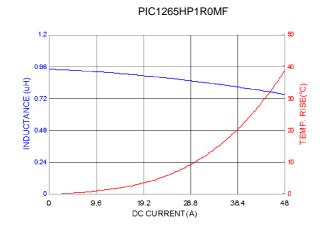
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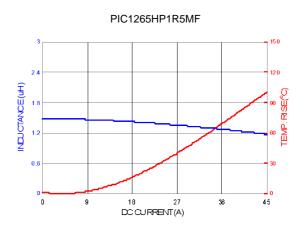


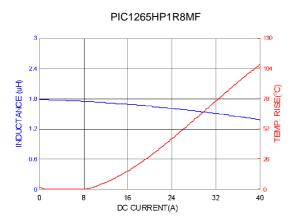
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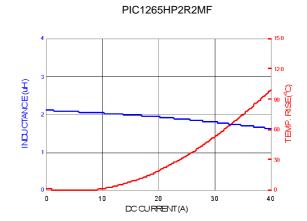
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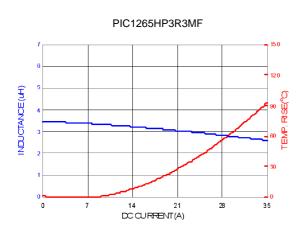
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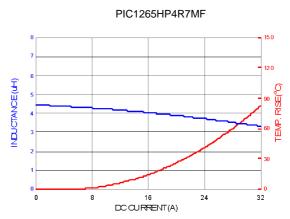














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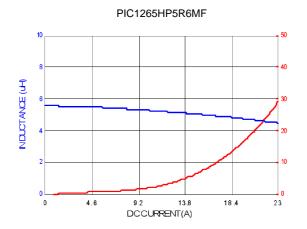
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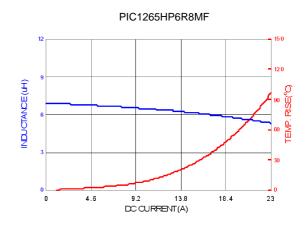


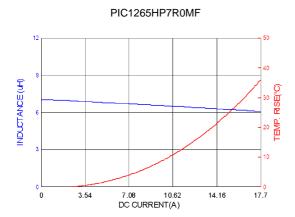
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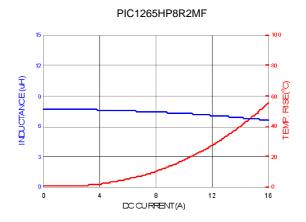
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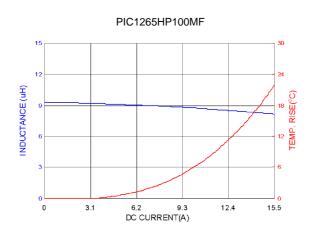
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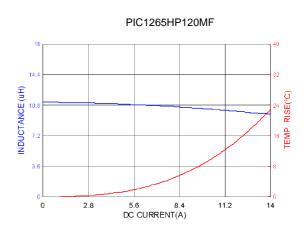














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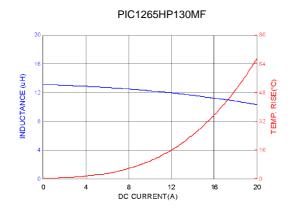
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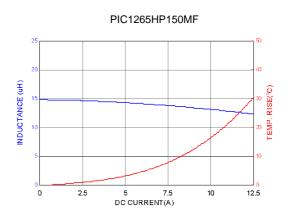


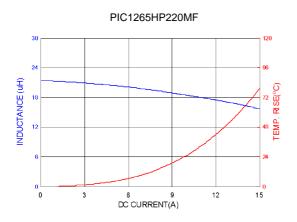
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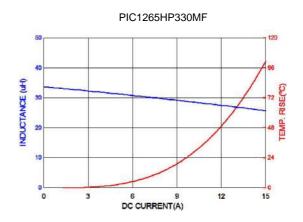
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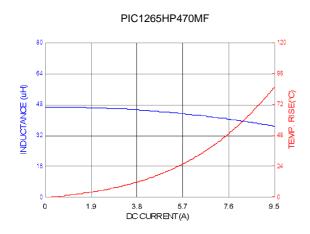
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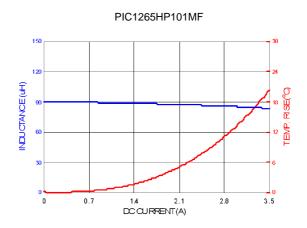














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8. SOLDERING

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:

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

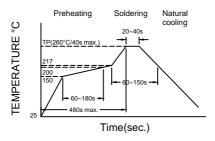


Figure 1. Re-flow Soldering: 3 times max.

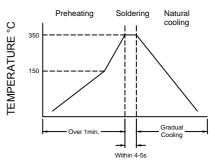


Figure 2. Hand Soldering: 1 times max.



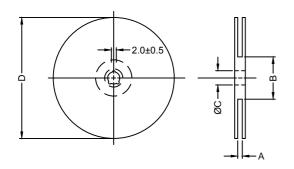
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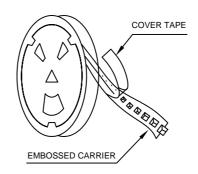


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9. PACKAGING INFORMATION:

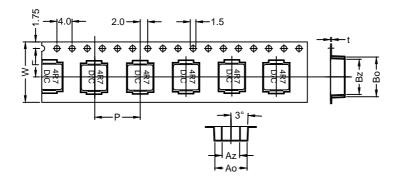
9-1. Reel Dimension





Туре	A(mm)	B(mm)	C(mm)	D(mm)
13" x 24mm	24.4+2.0/-0	100±2.0	13.5±0.5	330

9-2. Tape Dimension



Series	Ao(mm)	Az(mm)	Bo(mm)	Bz(mm)	Ko(mm)	P(mm)	W(mm)	F(mm)	t(mm)
PIC1265	12.9±0.1	7.0±0.1	14.1±0.1	13.0±0.1	7.0±0.1	16.0±0.1	24±0.3	11.5±0.1	0.35±0.05

9-3. Packaging Quantity

Size	PIC1265		
Chip / Reel	500		
Inner Box	1000		
Carton	4000		

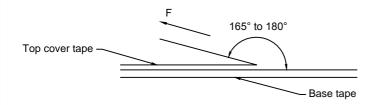
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9-4. Tearing Off Force



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

Application Notice

1. Storage Conditions:

To maintain the solderability of terminal electrodes :

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

2. Transportation:

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



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