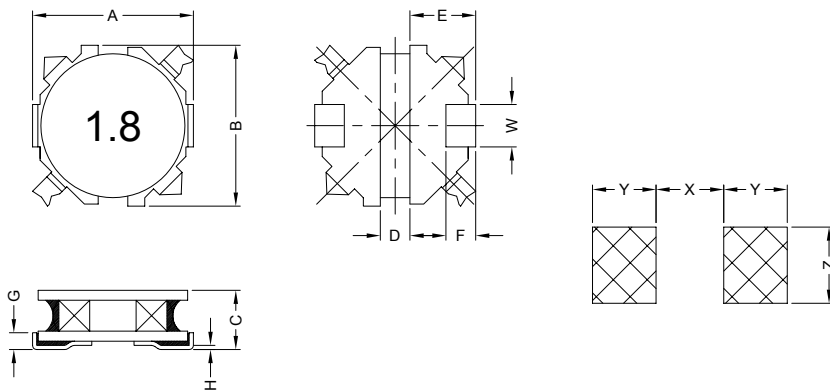


### 1. PART NO. EXPRESSION :

PDC4014C-1R8YF  
 (a) (b) (c) (d) (e)(f)

- (a) Series code
- (b) Dimension code
- (c) Type code
- (d) Inductance code : 1R8 = 1.8uH
- (e) Tolerance code : M = ±20%, Y = ±30%
- (f) F : Lead Free

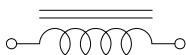
### 2. CONFIGURATION & DIMENSIONS :



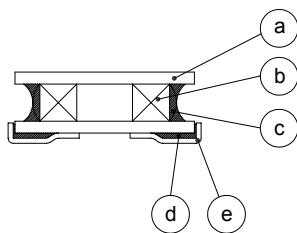
Unit : mm

A	B	C	D	E	F
3.8±0.2	3.8±0.2	1.40 Max.	0.70 Max.	1.65 Max.	0.70 Typ.
G	H	W	X	Y	Z
0.40 Typ.	0.10 Typ.	1.0 Typ.	1.60±0.1	1.50±0.1	1.80±0.1

### 3. SCHEMATIC :



### 4. MATERIALS :



- (a) Core : Ferrite Core
- (b) Wire : Enamelled Copper Wire
- (c) Adhesive : Epoxy
- (d) Adhesive : Epoxy
- (e) Clip : Tin Clip



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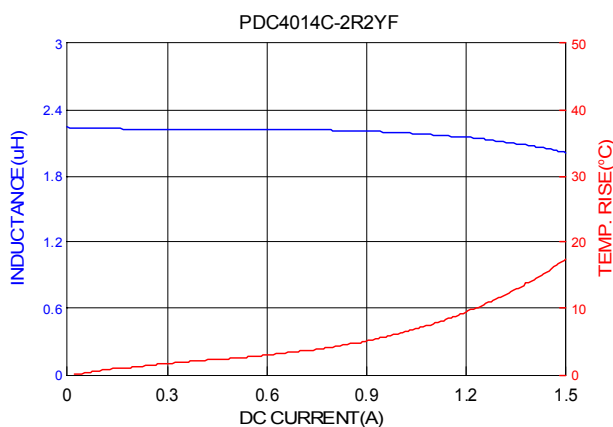
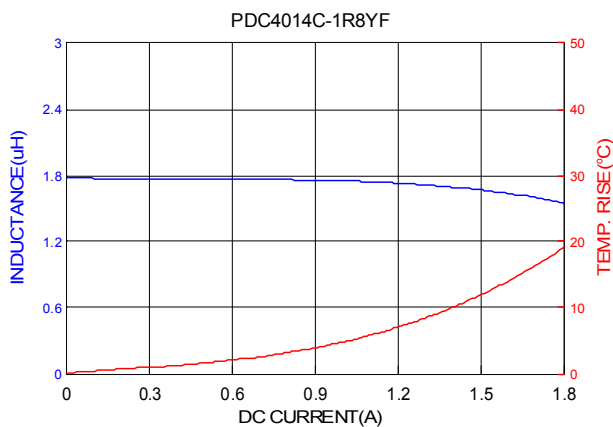
**5. GENERAL SPECIFICATION :**

- a) Test Frequency : 100KHz/0.3Vdc
- b) Ambient Temp. : 25°C
- c) I<sub>dc</sub>(A) : Will cause L<sub>o</sub> to drop by 30% and coil temp. rise ΔT≤45°C
- d) Operating temp. : -40°C to +85°C ( include self-temp. rise )
- e) Storage temp. : -40°C to +85°C

**6. ELECTRICAL CHARACTERISTICS :**

Part No.	Inductance ( μH )	Test Frequency ( Hz )	DCR ( Ω ) ±20%	IDC ( A ) Max.
PDC4014C-1R8YF	1.8 ±30%	0.3V/100K	0.07	1.55
PDC4014C-2R2YF	2.2 ±30%	0.3V/100K	0.08	1.35
PDC4014C-3R3YF	3.3 ±30%	0.3V/100K	0.11	1.10
PDC4014C-4R7YF	4.7 ±30%	0.3V/100K	0.15	0.90
PDC4014C-6R8YF	6.8 ±30%	0.3V/100K	0.19	0.82
PDC4014C-100MF	10 ±20%	0.3V/100K	0.25	0.74
PDC4014C-150MF	15 ±20%	0.3V/100K	0.37	0.62
PDC4014C-220MF	22 ±20%	0.3V/100K	0.64	0.48

**6. ELECTRICAL CHARACTERISTICS :**



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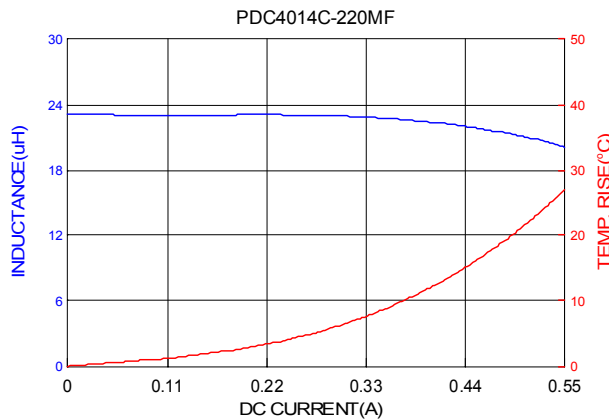
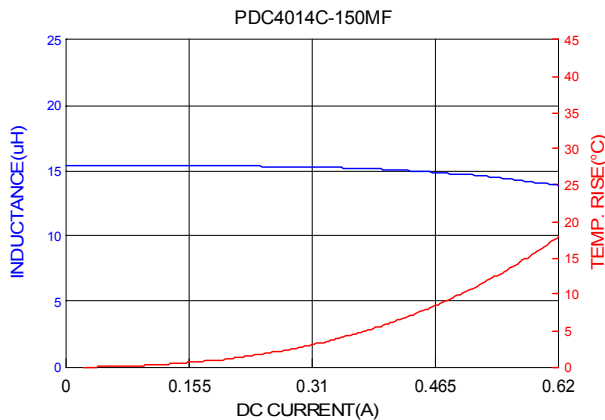
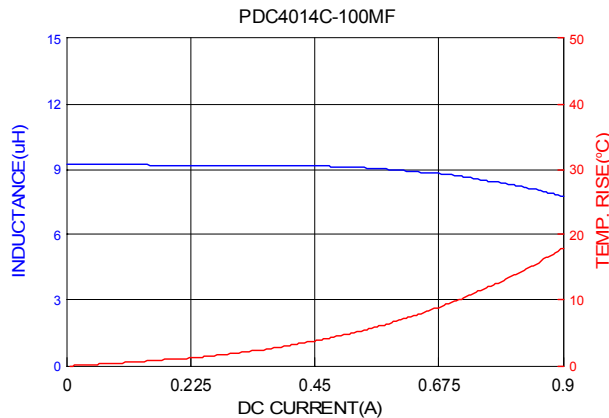
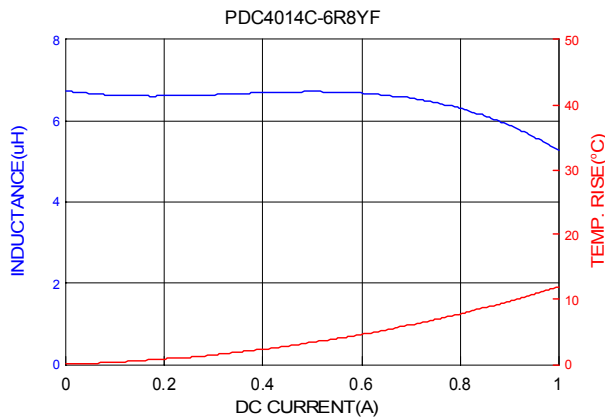
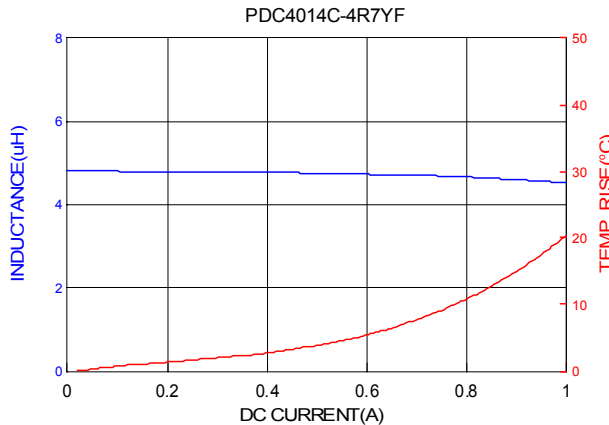
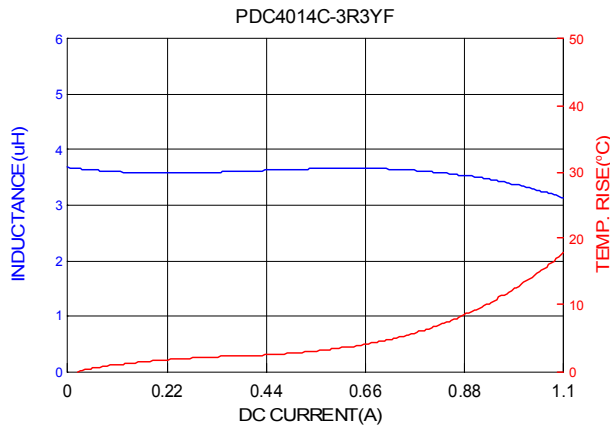
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7. CHARACTERISTICS CURVES :



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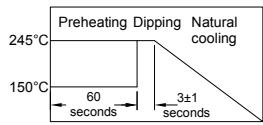
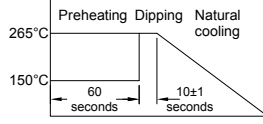
NOTE : Specifications subject to change without notice. Please check our website for latest information.

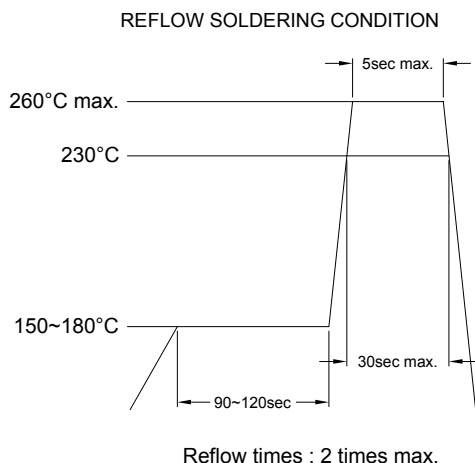
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**8. ELECTRICAL CHARACTERISTICS :**

ITEM	PERFORMANCE	TEST CONDITION															
Mechanical Performance Test																	
Solderability Test	More than 90% of the terminal electrode should be covered with solder.	Preheat : 150°C, 60sec. Solder : DD930C Solder Temperature : 245±5°C Flux for lead free : rosin Dip Time : 3±1sec. 															
Solder Heat Resistance	1. Appearance : No significant abnormality 2. Inductance change : Within ±10%	Preheat : 150°C, 60sec. Solder : DD930C Solder Temperature : 265±5°C Dip Time : 10±1sec. 															
Reliability Test																	
Thermal Shock	1. Appearance : No damage 2. Inductance change : Within ±10% of initial value  Measured : 50 times	Conditions of 1 cycle. <table border="1"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Times (min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25±2</td> <td>30±3</td> </tr> <tr> <td>2</td> <td>Room temp.</td> <td>15</td> </tr> <tr> <td>3</td> <td>+85±2</td> <td>30±3</td> </tr> <tr> <td>4</td> <td>Room temp.</td> <td>15</td> </tr> </tbody> </table> Total : 50 cycles	Step	Temperature (°C)	Times (min.)	1	-25±2	30±3	2	Room temp.	15	3	+85±2	30±3	4	Room temp.	15
Step	Temperature (°C)	Times (min.)															
1	-25±2	30±3															
2	Room temp.	15															
3	+85±2	30±3															
4	Room temp.	15															
Humidity Resistance	1. Appearance : No damage 2. Inductance change : Within ±10% of initial value	Temperature : 40±2°C Humidity : 90% to 95% Applied Current : Rated Current Time : 500 hours															
High Temperature Resistance Test	1. Appearance : No damage 2. Inductance change : Within ±15% of initial value	Temperature : 85±2°C Time : 500 hrs Applied Current : Rated Current															



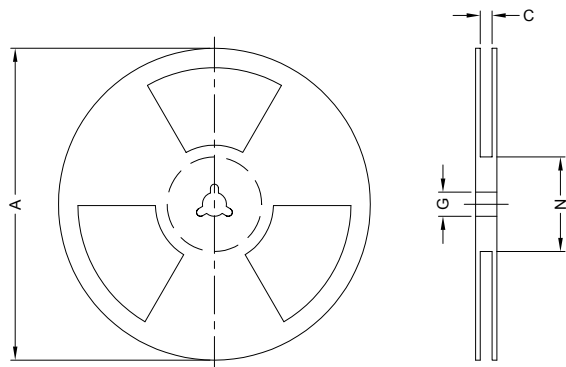
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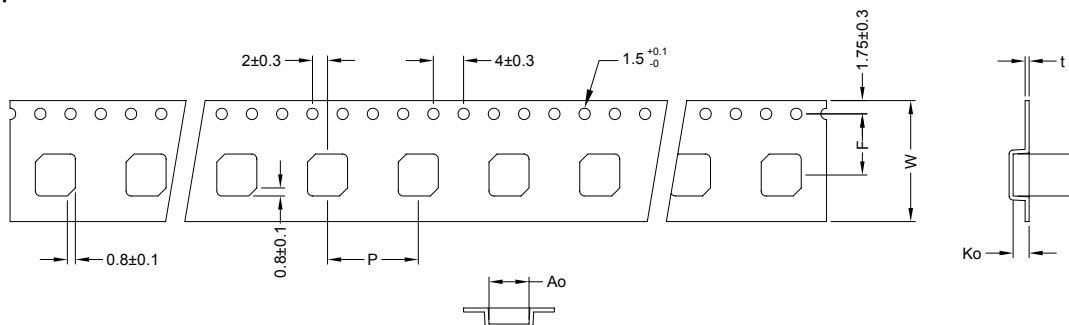
9. PACKAGING INFORMATION :

9-1. Reel Dimension

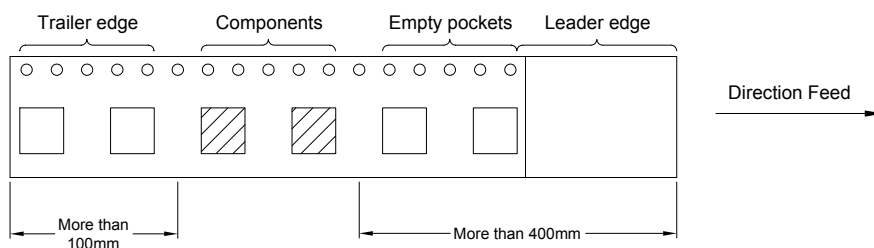


Type	A(mm)	C(mm)	G(mm)	N(mm)
13" x 12mm	330	12.5±0.5	13.0±0.5	100±1.0

9-2 Tape Dimension / 12mm



Series	Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	W(mm)	F(mm)	t(mm)
PDC4014C	4.0±0.1	4.2±0.1	1.6±0.2	8.0±0.3	12±0.3	5.5±0.3	0.4±0.1



9-3. Packaging Quantity

Size	PDC4014C
Chip / Reel	3000
Inner Box	12000
Carton	48000

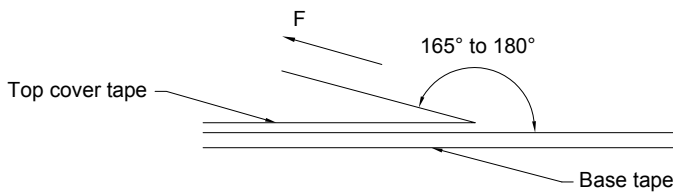


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**9-4. Tearing Off Force**



The force for tearing off cover tape is 10 to 125 grams in the arrow direction under the following conditions.

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 :

- a) Temperature and humidity conditions : Less than 40°C and 70% RH.
- b) Recommended products should be used within 6 months from the time of delivery.
- c) 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) The use of tweezers or 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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