

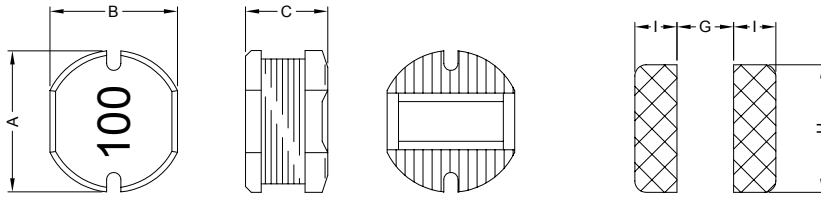
1. PART NO. EXPRESSION :

PDC0703100MZ F

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

- (a) Series code
- (b) Dimension code
- (c) Inductance code : 100 = 10uH
- (d) Tolerance code : K = ±10%, M = ±20%
- (e) X, Y, Z : Standard part
- (f) F : Lead Free

2. CONFIGURATION & DIMENSIONS :

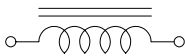


PCB Pattern

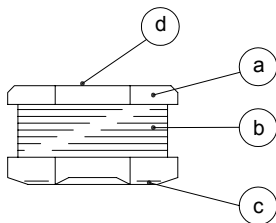
Unit : mm

A	B	C	G	H	I
7.8±0.3	7.0±0.3	3.5±0.5	2.00 Ref.	7.50 Ref.	3.00 Ref.

3. SCHEMATIC :



4. MATERIALS :



- (a) Core : DR Ferrite Core
- (b) Wire : Enamelled Copper Wire
- (c) Terminal : Ag+Cu+Ni+Sn
- (d) Ink : Bon Margue

5. GENERAL SPECIFICATION :

- a) Temp. rise : 40°C Max.
- b) Rated current : Base on temp. rise & $\Delta L/L0A = 10\%$ Max.
- c) Storage temp. : -40°C to +125°C
- d) Operating temp. : -40°C to +85°C
- e) Resistance to solder heat : 260°C.10 secs



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

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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Frequency (Hz)	RDC (Ω) Max.	IDC (A) Max.
PDC0703100MZF	10 \pm 20%	2.52M	0.0803	1.44
PDC0703120MZF	12 \pm 20%	2.52M	0.0897	1.39
PDC0703150MZF	15 \pm 20%	2.52M	0.104	1.24
PDC0703180MZF	18 \pm 20%	2.52M	0.111	1.12
PDC0703220MZF	22 \pm 20%	2.52M	0.129	1.07
PDC0703270MZF	27 \pm 20%	2.52M	0.153	0.94
PDC0703330MZF	33 \pm 20%	2.52M	0.170	0.85
PDC0703390MZF	39 \pm 20%	2.52M	0.217	0.74
PDC0703470MZF	47 \pm 20%	2.52M	0.252	0.68
PDC0703560KZF	56 \pm 10%	2.52M	0.282	0.64
PDC0703680KZF	68 \pm 10%	2.52M	0.332	0.59
PDC0703820KZF	82 \pm 10%	2.52M	0.406	0.54
PDC0703101KZF	100 \pm 10%	1V / 1K	0.481	0.51
PDC0703121KZF	120 \pm 10%	1V / 1K	0.536	0.49
PDC0703151KZF	150 \pm 10%	1V / 1K	0.755	0.40
PDC0703181KZF	180 \pm 10%	1V / 1K	1.022	0.36
PDC0703221KZF	220 \pm 10%	1V / 1K	1.200	0.31
PDC0703271KZF	270 \pm 10%	1V / 1K	1.306	0.29
PDC0703331KZF	330 \pm 10%	1V / 1K	1.495	0.28



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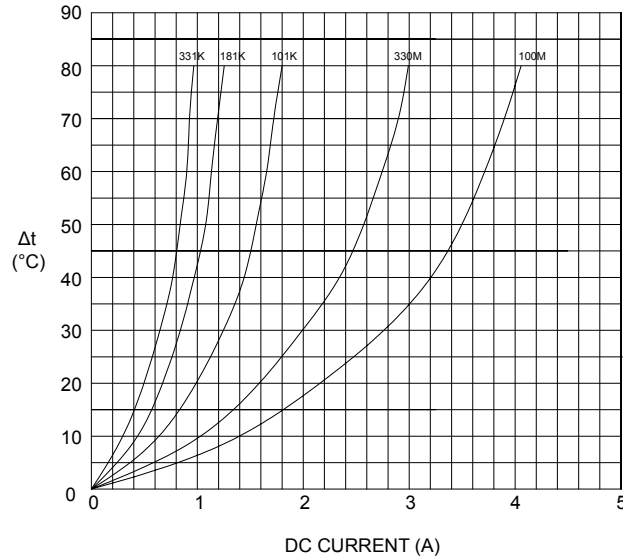
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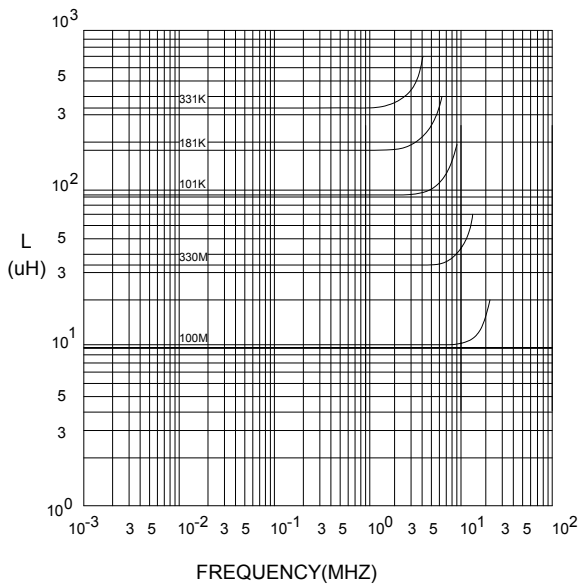
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7. CHARACTERISTICS CURVES :

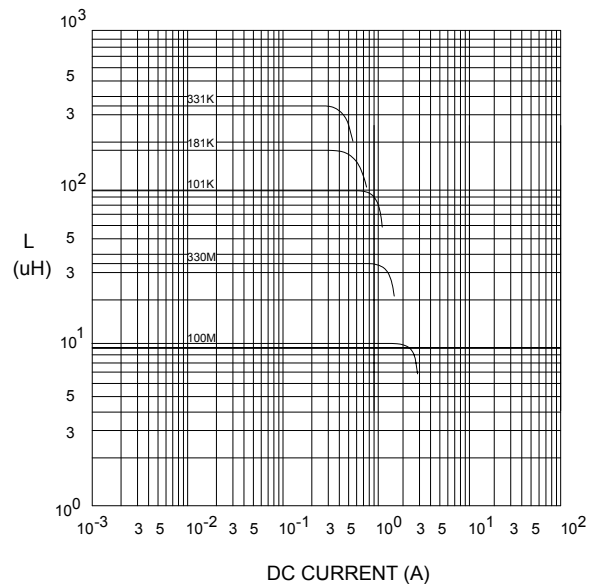
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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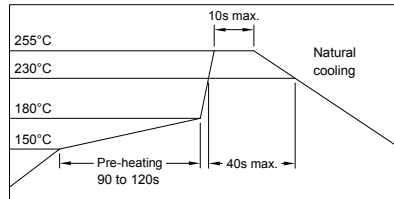
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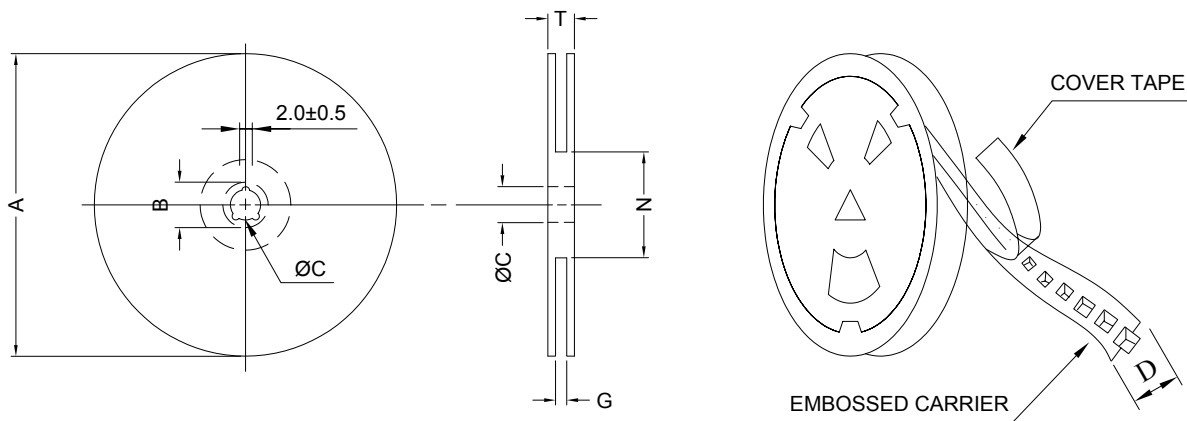
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

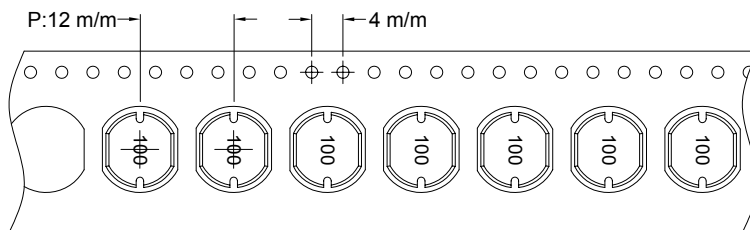


8. PACKAGING INFORMATION :

(1) CONFIGURATION



* CARRIER TAPE WIDTH : D



(2) DIMENSIONS

Unit:m/m

STYLE	A	B	C	D	G	N	T
13-16	330	21±0.8	13±0.5	16	18 ⁺⁰	50 ⁻⁰	22.4

(3) Q'TY & G.W. PER PACKAGE

SERIES	INNER : REEL			OUTER : CARTON		
	Q'TY (PCS)	G.W. (gw)	STYLE	Q'TY (PCS)	G.W. (Kg)	SIZE (cm)
PDC0703	1000	950	13 - 16	6000	9.2	40 x 40 x 24



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9. RELIABILITY AND TEST CONDITION :

TEST ITEM	SPECIFICATION	TEST CONDITION
SOLDERABILITY	MORE THAN 90% OF THE TERMINAL ELECTRODE SHALL BE COVERED WITH FRESH SOLDER.	PREHEAT : 125±25°C FOR 60 SECONDS SOLDER : 99%Sn/0.3%Ag/0.7%Cu or equivalent SOLDER TEMP. : 245±5°C FLUX : ROSIN DIP TIME : 4±1 SECONDS
THERMAL SHOCK TEST (TEMP. CYCLE)	INDUCTANCE SHALL NOT CHANGE MORE THAN ±20%	ROOM TEMP. → -25±2°C 15 MINUTES → 30 MINUTES ROOM TEMP. → 85±2°C 15 MINUTES → 30 MINUTES TOTAL : 50 CYCLES
HUMIDITY RESISTANCE TEST		TEMPERATURE : 40±2°C HUMIDITY : 90 ~ 95% APPLIED CURRENT : PER SPEC. TIME : 500 HOURS
HIGH TEMP. RESISTANCE TEST		TEMPERATURE : 85±2°C APPLIED CURRENT : PER SPEC. TIME : 500 HOURS

10. UL CARD :

OBMW2		November 30, 2000		
Magnet Wire - Component				
PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD				E201757
607 BAOLONG INDUSTRIAL ESTATE LONGGANG, SHENZHEN GUANGDONG CHINA				
	Coating Type		ANSI	
Mtl Dsg	BC	TC	Type	TI
UEW/U	Polyurethane	—	—	130
PEW/U	Polyester	—	MW5-C	155°C
PEWH/U	Modified Polyester	—	MW30-C	180
PEW-NY/U	Polyester	Polyamide	MW24-C	155
HAL/U	Polyester(Amide)(Imide)	Polyamideimide	MW35,73	200
UEW-NY/U	Polyurethane	Polyamide	MW80-C	155
			MW28-C	130
Marking: Company name and material designation or marked designation on package or reel, and Recognized Component Mark.				
See General Information Preceding These Recognitions				
1/3/2001	Underwriters Laboratories Inc.		Card 1 of 2	



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