

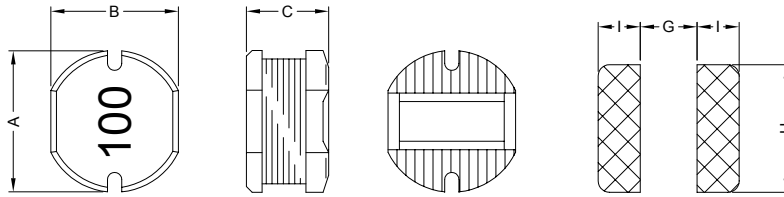
1. PART NO. EXPRESSION :

PDC04031R0MZ F

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

- (a) Series code
- (b) Dimension code
- (c) Inductance code : 1R0 = 1.0uH
- (d) Tolerance code : K = ±10%, M = ±20%
- (e) X, Y, Z : Standard products
- (f) F : Lead Free

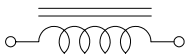
2. CONFIGURATION & DIMENSIONS :



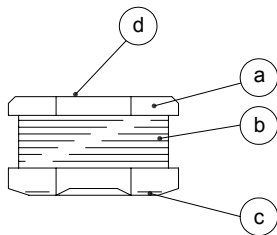
PCB Pattern

A	B	C	G	H	I
4.5±0.3	4.0±0.3	3.2±0.3	1.50 Ref.	4.50 Ref.	1.75 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.



6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Frequency (MHz)	RDC (Ω) Max.	IDC (A) Max.
PDC04031R0MZF	1.0 \pm 20%	7.96	0.033	3.80
PDC04031R4MZF	1.4 \pm 20%	7.96	0.038	3.30
PDC04031R8MZF	1.8 \pm 20%	7.96	0.042	2.91
PDC04032R2MZF	2.2 \pm 20%	7.96	0.047	2.60
PDC04032R7MZF	2.7 \pm 20%	7.96	0.052	2.43
PDC04033R3MZF	3.3 \pm 20%	7.96	0.058	2.15
PDC04033R9MZF	3.9 \pm 20%	7.96	0.076	1.98
PDC04034R7MZF	4.7 \pm 20%	7.96	0.094	1.70
PDC04035R6MZF	5.6 \pm 20%	7.96	0.101	1.60
PDC04036R8MZF	6.8 \pm 20%	7.96	0.117	1.41
PDC04038R2MZF	8.2 \pm 20%	7.96	0.132	1.26
PDC0403100MZF	10.0 \pm 20%	2.52	0.182	1.15
PDC0403120MZF	12.0 \pm 20%	2.52	0.210	1.05
PDC0403150MZF	15.0 \pm 20%	2.52	0.235	0.92
PDC0403180MZF	18.0 \pm 20%	2.52	0.338	0.84
PDC0403220MZF	22.0 \pm 20%	2.52	0.378	0.76
PDC0403270MZF	27.0 \pm 20%	2.52	0.522	0.71
PDC0403330KZF	33.0 \pm 10%	2.52	0.540	0.64
PDC0403390KZF	39.0 \pm 10%	2.52	0.587	0.59
PDC0403470KZF	47.0 \pm 10%	2.52	0.844	0.54
PDC0403560KZF	56.0 \pm 10%	2.52	0.937	0.50
PDC0403680KZF	68.0 \pm 10%	2.52	1.117	0.46



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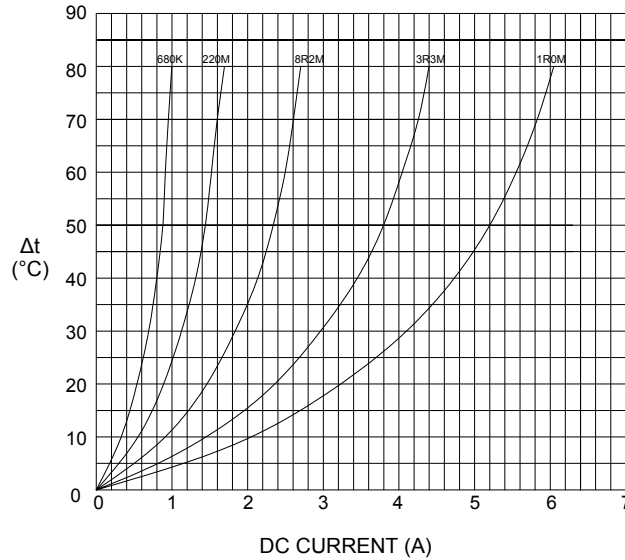
01.05.2008



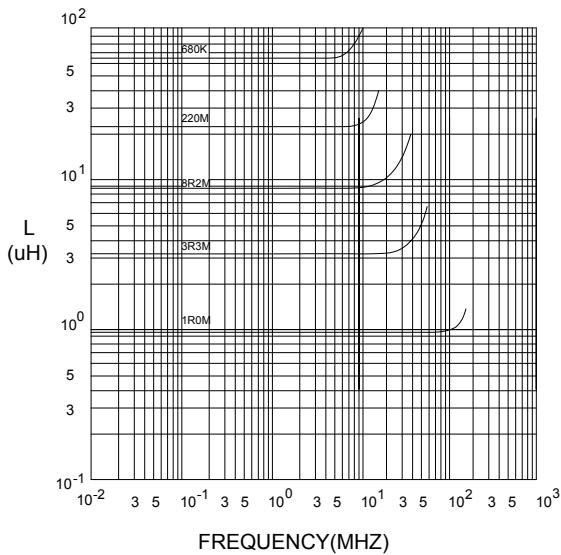
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7. CHARACTERISTICS CURVES :

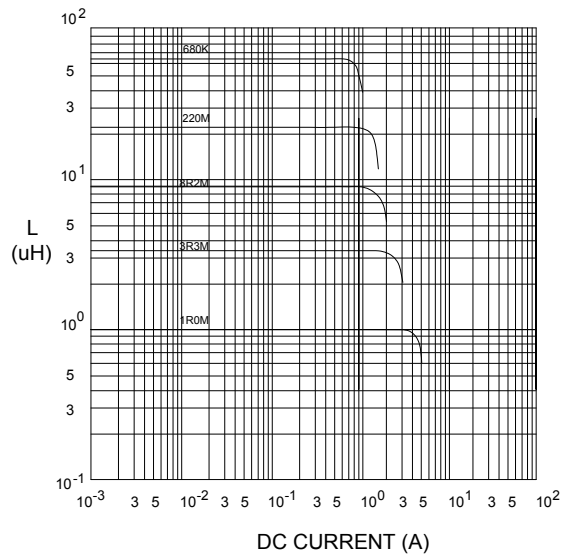
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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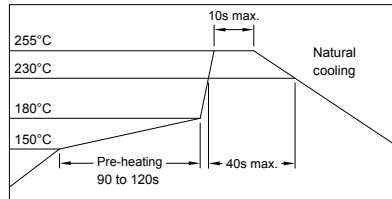
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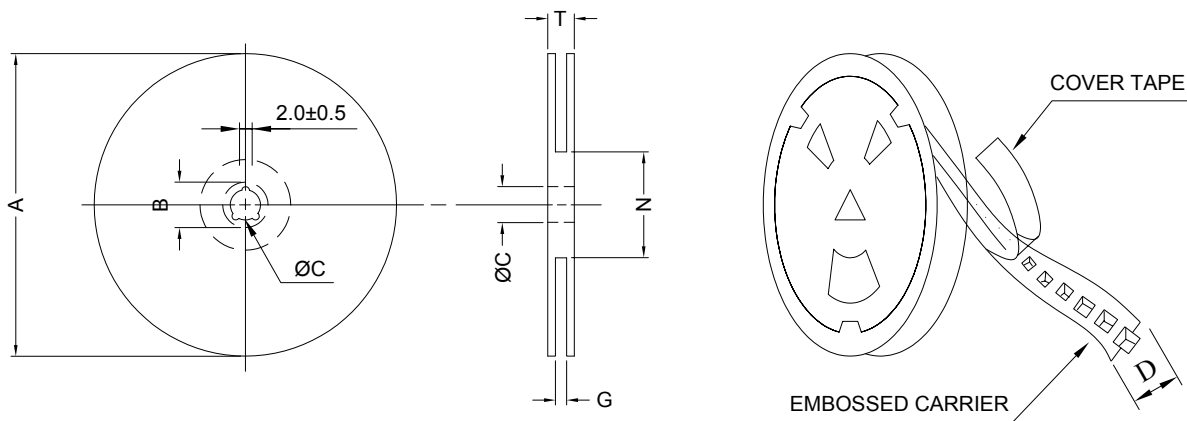
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

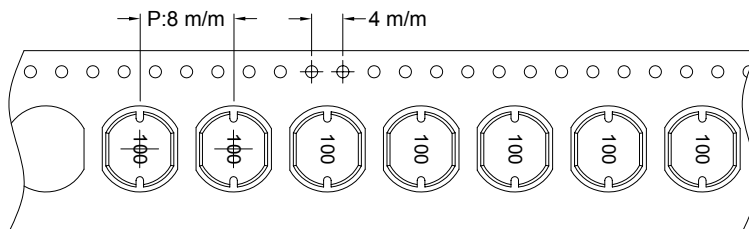


8. PACKAGING INFORMATION :

(1) CONFIGURATION



* CARRIER TAPE WIDTH : D



(2) DIMENSIONS

Unit:m/m

STYLE	A	B	C	D	G	N	T
13 - 12	330	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	18.4

(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)
PDC0403	1500	825	13 - 12	12000	10.1	40 x 40 x 24
PDC0403	2000	1100	13 - 12	16000	12.3	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%	<table border="0"> <tr> <td>ROOM TEMP.</td> <td>→</td> <td>-25±2°C</td> </tr> <tr> <td>15 MINUTES</td> <td></td> <td>30 MINUTES</td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>ROOM TEMP.</td> <td>→</td> <td>85±2°C</td> </tr> <tr> <td>15 MINUTES</td> <td></td> <td>30 MINUTES</td> </tr> </table> <p>TOTAL : 50 CYCLES</p>	ROOM TEMP.	→	-25±2°C	15 MINUTES		30 MINUTES				ROOM TEMP.	→	85±2°C	15 MINUTES		30 MINUTES
ROOM TEMP.	→	-25±2°C															
15 MINUTES		30 MINUTES															
ROOM TEMP.	→	85±2°C															
15 MINUTES		30 MINUTES															
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
HAI/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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