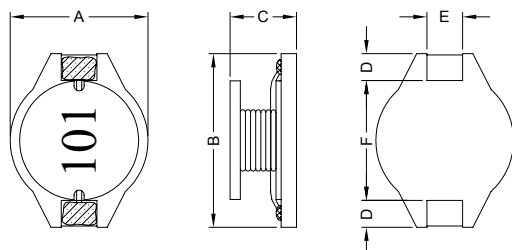


1. PART NO. EXPRESSION :

P D B 1 0 0 3 1 0 1 M Z F
(a) (b) (c) (d)(e)(f)

- (a) Series code
(b) Dimension code
(c) Inductance code : 101 = 100uH
(d) Tolerance code : M = $\pm 20\%$
(e) X, Y, Z : Standard part
(f) F : Lead Free

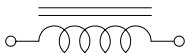
2. CONFIGURATION & DIMENSIONS :



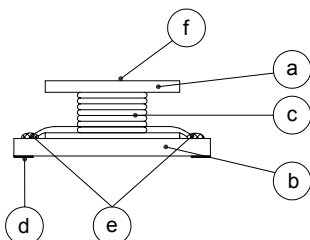
Unit:m/m

A	B	C	D	E	F	G	H	I
10.0 $\pm$ 0.2	12.7 $\pm$ 0.2	3.0 $\pm$ 0.3	2.4 $\pm$ 0.2	2.2 $\pm$ 0.2	7.6 $\pm$ 0.3	7.3 Ref.	2.8 Ref.	3.0 Ref.

3. SCHEMATIC :



4. MATERIALS :



- (a) Core : DR Ferrite Core
(b) Base : LCP
(c) Wire : Enamelled Copper Wire
(d) Terminal : Tinned Copper Plate
(e) Adhesive : Epoxy
(f) Ink : Bon Margue

5. GENERAL SPECIFICATION :

- a) Temp. rise : 30°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 +95°C
e) Resistance to solder heat : 260°C.10 secs



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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Frequency (Hz)	SRF (MHz) Typ.	RDC (m Ω) Max.	IDC (A)
PDB1003100MZF	10 $\pm$ 20%	1V / 100K	35.0	110	2.00
PDB1003150MZF	15 $\pm$ 20%	1V / 100K	33.0	150	1.50
PDB1003220MZF	22 $\pm$ 20%	1V / 100K	25.0	230	1.30
PDB1003330MZF	33 $\pm$ 20%	1V / 100K	19.0	300	1.10
PDB1003470MZF	47 $\pm$ 20%	1V / 100K	14.0	390	0.80
PDB1003680MZF	68 $\pm$ 20%	1V / 100K	12.0	660	0.70
PDB1003101MZF	100 $\pm$ 20%	1V / 100K	10.0	840	0.60
PDB1003151MZF	150 $\pm$ 20%	1V / 100K	8.0	1200	0.50
PDB1003221MZF	220 $\pm$ 20%	1V / 100K	6.0	1900	0.40
PDB1003331MZF	330 $\pm$ 20%	1V / 100K	5.0	2700	0.30
PDB1003471MZF	470 $\pm$ 20%	1V / 100K	4.0	4000	0.20
PDB1003681MZF	680 $\pm$ 20%	1V / 100K	3.0	5300	0.10
PDB1003102MZF	1000 $\pm$ 20%	1V / 100K	2.5	8400	0.05



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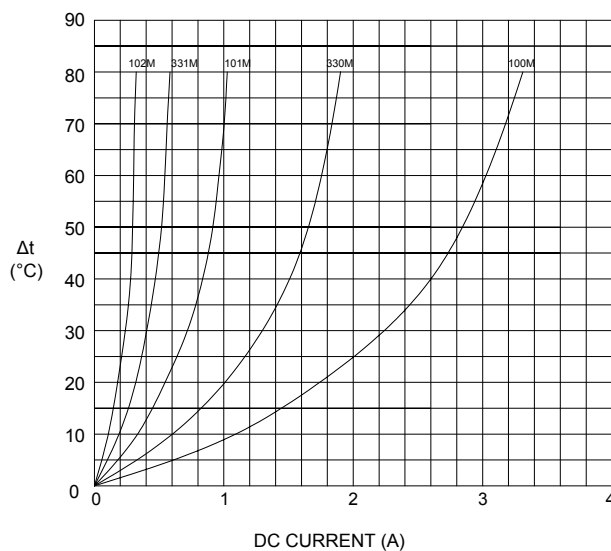
01.05.2008



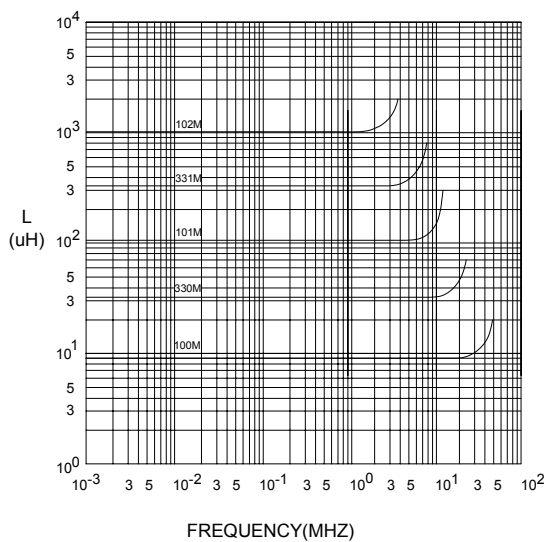
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7. CHARACTERISTICS CURVES :

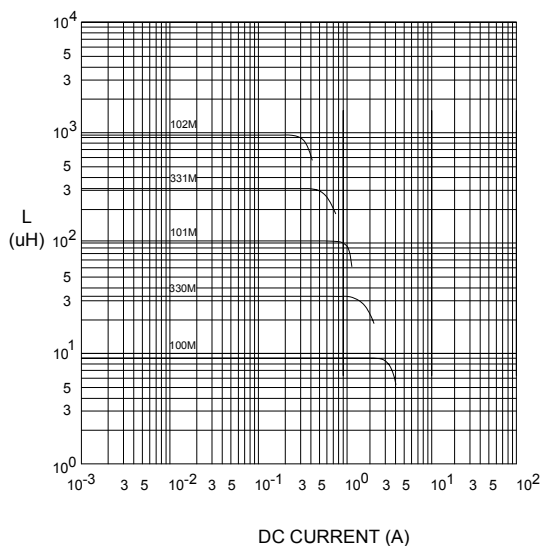
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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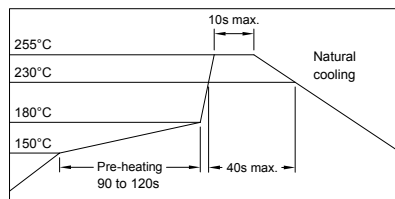
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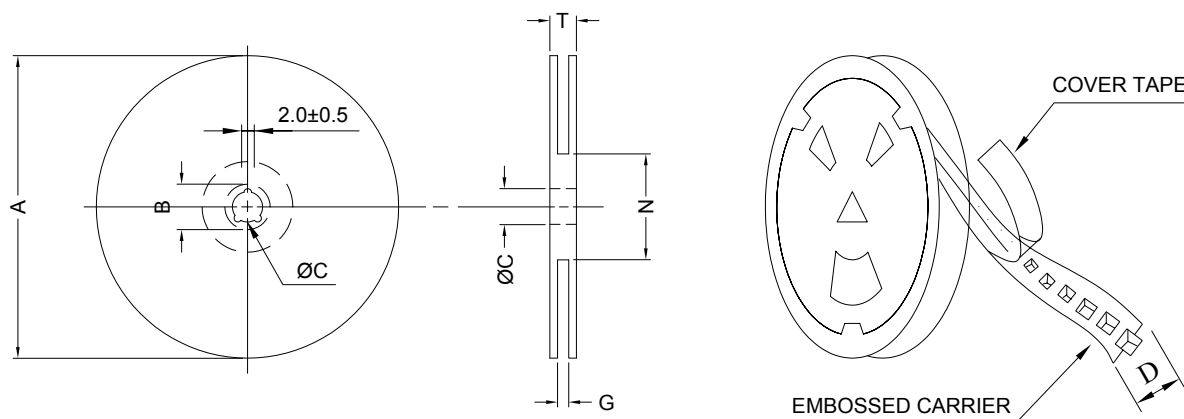
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

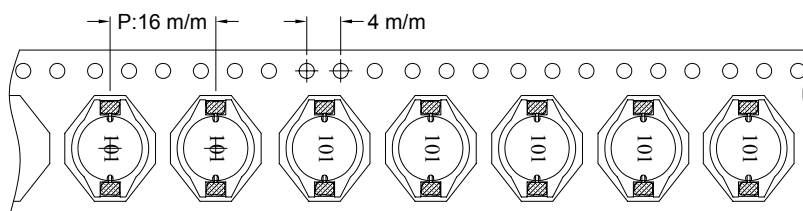


8. PACKAGING INFORMATION :

(1) CONFIGURATION



* CARRIER TAPE WIDTH : D



(2) DIMENSIONS

Unit:m/m

STYLE	A	B	C	D	G	N	T
13-24	330	21±0.8	13±0.5	24	26 ⁻⁰	50 ⁻⁰	30.4

(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)
PDB1003	1000	950	13-24	4000	7.30	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%	<div>ROOM TEMP. → -25±2°C</div> <div>15 MINUTES 30 MINUTES</div> <div>ROOM TEMP. → 85±2°C</div> <div>15 MINUTES 30 MINUTES</div> 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



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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

SUMITOMO CHEMICAL CO LTD
5-33 KITAHAMA 4-CHOME CHUO-KO, OSAKA JAPAN

E54705 (M)

Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI Mech with Imp	w/o Imp	H W I	H A I	H V T R	D 4 5	C T I
Liquid crystal polyester (LCP), designated "EKONOL" or "SUMIKASUPER", furnished in the form of pellets, (Contd)											
E4008 , E400X	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
E4008	NC , WT , BK	3.0	94V-0	130	130	130	1	4	0	5	4
		0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	220	180	220	3	4	—	—	—
E4010	NC , BK	1.5	94V-0	220	200	240	2	4	—	—	—
		3.0	94V-0	220	200	240	1	4	0	5	4
		0.30	94V-0	130	130	130	—	—	—	—	—
E400(Y)L , E4008L	NC , BK	0.75	94V-0	220	180	220	3	4	—	—	—
		1.5	94V-0	220	200	240	2	4	—	—	—
		3.0	94V-0	220	200	240	1	4	0	5	4
E4810	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4
		0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	0	4	—	—	—
		1.5	94V-0	130	130	130	0	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4

(X) Denotes any number 1 thru 9.

(Y) Denotes any number 1 thru 7.



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SUPERWORLD ELECTRONICS (S) PTE LTD

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