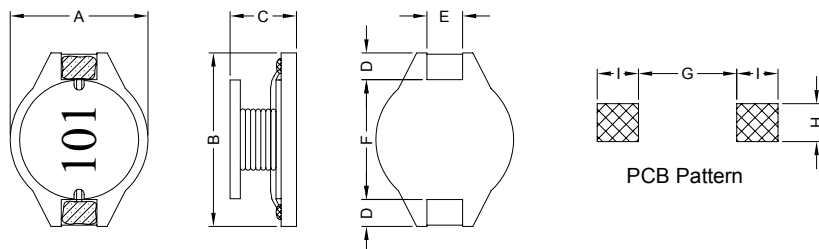


1. PART NO. EXPRESSION :

P D B 0 8 0 5 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 :



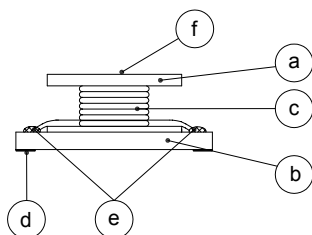
Unit:m/m

A	B	C	D	E	F	G	H	I
8.0 $\pm$ 0.2	10.5 $\pm$ 0.2	5.0 $\pm$ 0.3	2.1 $\pm$ 0.2	2.0 $\pm$ 0.2	6.0 $\pm$ 0.3	5.7 Ref.	2.2 Ref.	2.4 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 : 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)	Q Ref.	Test Frequency (Hz)	SRF (MHz) Typ.	RDC (m Ω) Max.	IDC (A)
PDB08053R3MZF	3.3 $\pm$ 20%	40	1V / 100K	50.0	30	3.70
PDB08054R7MZF	4.7 $\pm$ 20%	30	1V / 100K	40.0	35	3.30
PDB08056R8MZF	6.8 $\pm$ 20%	30	1V / 100K	30.0	50	2.70
PDB0805100MZF	10.0 $\pm$ 20%	25	1V / 100K	23.0	60	2.30
PDB0805150MZF	15.0 $\pm$ 20%	25	1V / 100K	20.0	80	2.10
PDB0805220MZF	22.0 $\pm$ 20%	25	1V / 100K	16.0	130	1.60
PDB0805330MZF	33.0 $\pm$ 20%	25	1V / 100K	12.0	180	1.30
PDB0805470MZF	47.0 $\pm$ 20%	45	1V / 100K	11.0	260	1.10
PDB0805680MZF	68.0 $\pm$ 20%	35	1V / 100K	9.0	350	1.10
PDB0805101MZF	100.0 $\pm$ 20%	55	1V / 100K	7.0	580	0.70
PDB0805151MZF	150.0 $\pm$ 20%	50	1V / 100K	5.0	750	0.60
PDB0805221MZF	220.0 $\pm$ 20%	55	1V / 100K	4.0	1050	0.50
PDB0805331MZF	330.0 $\pm$ 20%	50	1V / 100K	3.5	1600	0.45



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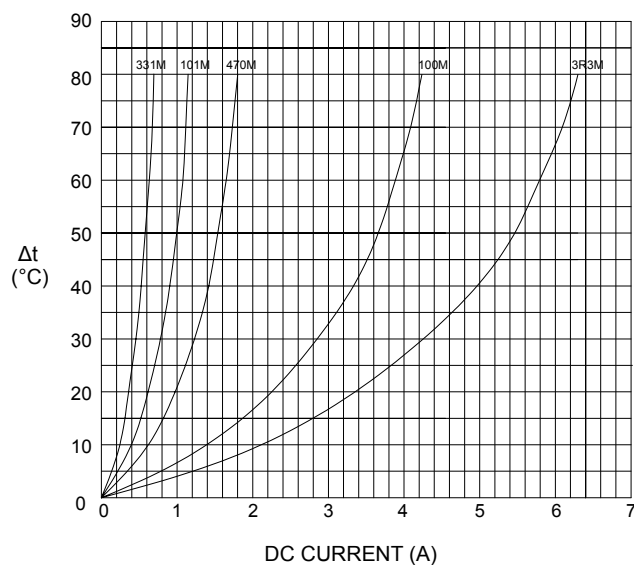
01.05.2008



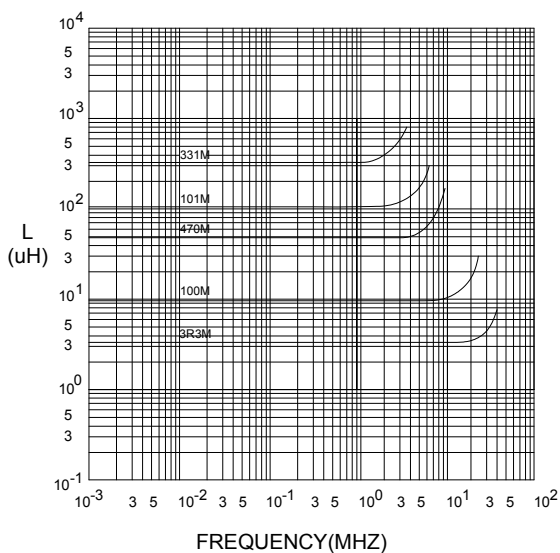
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6. ELECTRICAL CHARACTERISTICS :

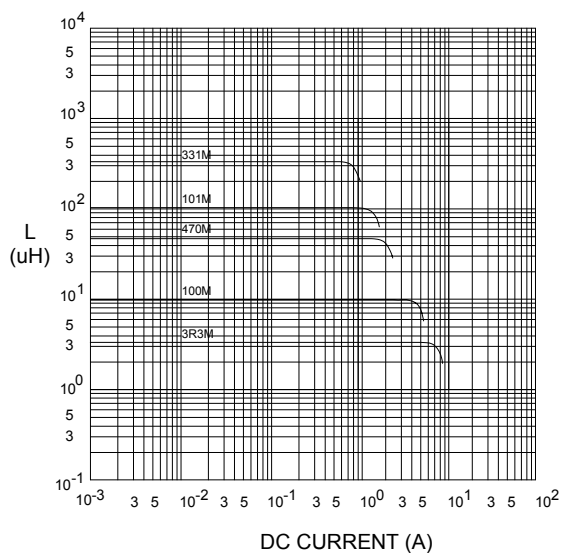
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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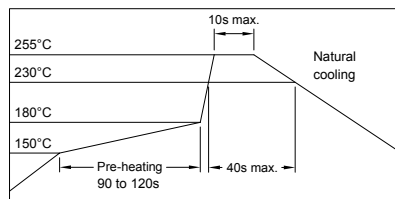
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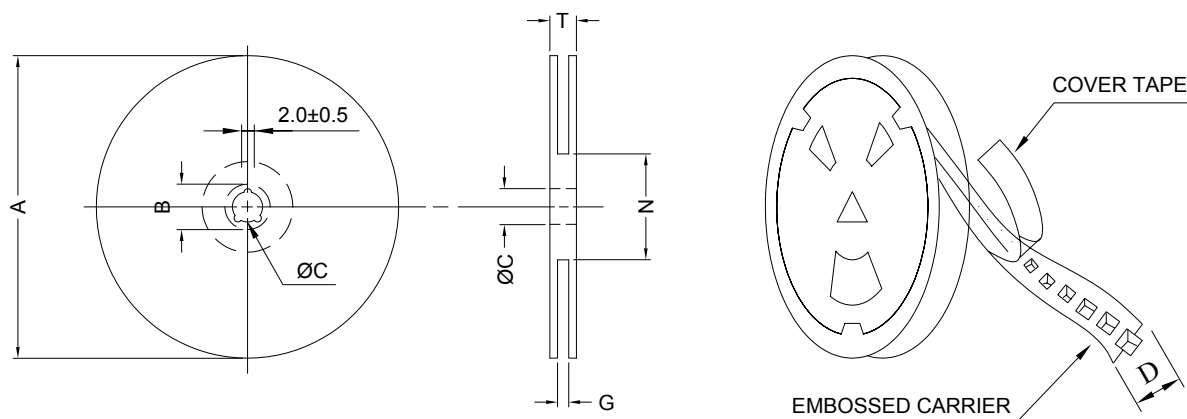
SUPERWORLD ELECTRONICS (S) PTE LTD

RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

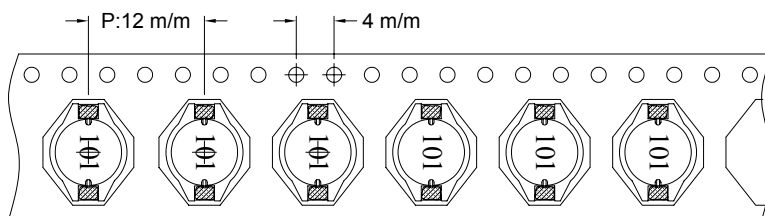


8. PACKAGING INFORMATION :

(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	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)
PDB0805	1000	1000	13-24	4000	7.5	40 x 40 x 24



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SUPERWORLD ELECTRONICS (S) PTE LTD

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



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SUPERWORLD ELECTRONICS (S) PTE LTD

10. UL CARD :

OBMW2

November 30, 2000

Magnet Wire - Component

PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD
607 BAOLONG INDUSTRIAL ESTATE LONGGANG, SHENZHEN
GUANGDONG CHINA

E201757

Mtl Dsg	BC	Coating Type	TC	ANSI 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

E54705 (M)

5-33 KITAHAMA 4-CHOME CHUO-KO, OSAKA JAPAN

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 9 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	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4
E4008	NC, WT, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		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
E4010	NC, BK	0.30	94V-0	130	130	130	—	—	—	—	—
		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
E400(Y)L, E4008L	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
E4810	NC, BK	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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