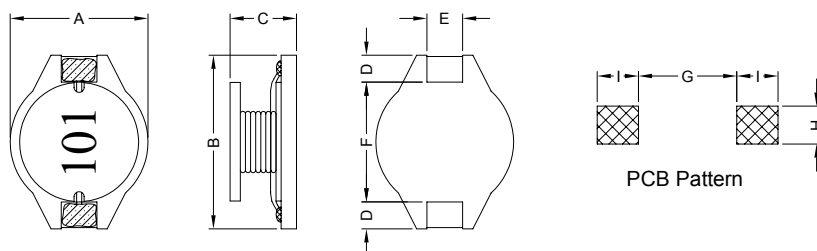


1. PART NO. EXPRESSION :

P D B 1 5 0 7 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

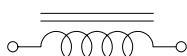
2. CONFIGURATION & DIMENSIONS :



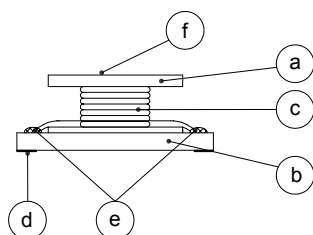
Unit:m/m

A	B	C	D	E	F	G	H	I
15.0 $\pm$ 0.3	18.4 $\pm$ 0.3	7.0 $\pm$ 0.5	2.4 $\pm$ 0.2	2.2 $\pm$ 0.2	13.3 $\pm$ 0.3	12.7 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 : 40°C Typ.
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



RoHS Compliant

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

01.05.2008



SUPERWORLD ELECTRONICS (S) PTE LTD

6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Q Ref.	Test Frequency (Hz)	SRF (MHz) Typ.	RDC (m Ω) Max.	IDC (A)
PDB15071R0MZF	1.00 $\pm$ 20%	50	1V/100K	140.0	9	8.60
PDB15071R5MZF	1.50 $\pm$ 20%	50	1V/100K	110.0	12	7.50
PDB15072R2MZF	2.20 $\pm$ 20%	50	1V/100K	75.0	14	7.10
PDB15073R3MZF	3.30 $\pm$ 20%	60	1V/100K	70.0	18	6.20
PDB15075R6MZF	5.60 $\pm$ 20%	50	1V/100K	45.0	20	5.30
PDB1507100MZF	10.00 $\pm$ 20%	30	1V/100K	21.0	31	4.30
PDB1507150MZF	15.00 $\pm$ 20%	30	1V/100K	16.0	36	4.00
PDB1507220MZF	22.00 $\pm$ 20%	20	1V/100K	13.0	47	3.50
PDB1507330MZF	33.00 $\pm$ 20%	30	1V/100K	11.0	66	3.00
PDB1507470MZF	47.00 $\pm$ 20%	20	1V/100K	9.0	86	2.60
PDB1507680MZF	68.00 $\pm$ 20%	30	1V/100K	6.5	130	2.30
PDB1507101MZF	100.00 $\pm$ 20%	20	1V/100K	5.7	190	1.80
PDB1507151MZF	150.00 $\pm$ 20%	25	1V/100K	4.5	250	1.50
PDB1507221MZF	220.00 $\pm$ 20%	25	1V/100K	3.7	380	1.20
PDB1507331MZF	330.00 $\pm$ 20%	30	1V/100K	3.0	560	1.00
PDB1507471MZF	470.00 $\pm$ 20%	30	1V/100K	2.7	850	0.82
PDB1507681MZF	680.00 $\pm$ 20%	35	1V/100K	2.2	1100	0.72
PDB1507102MZF	1000.00 $\pm$ 20%	35	1V/100K	2.0	1800	0.56



RoHS Compliant

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

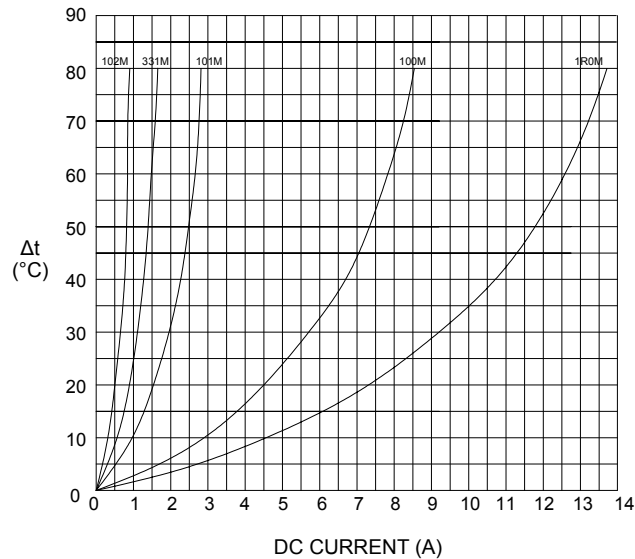
01.05.2008



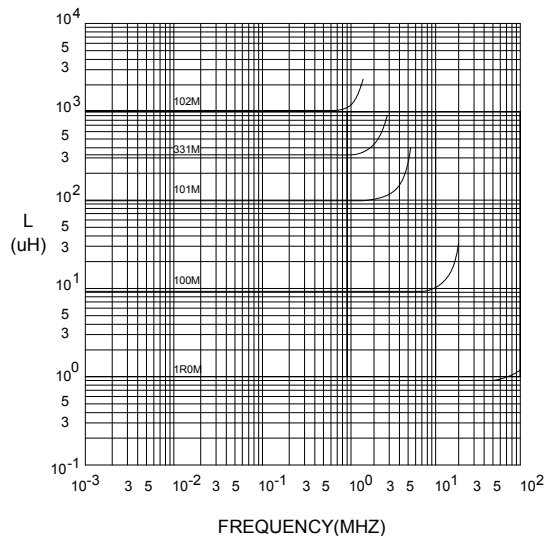
SUPERWORLD ELECTRONICS (S) PTE LTD

7. CHARACTERISTICS CURVES :

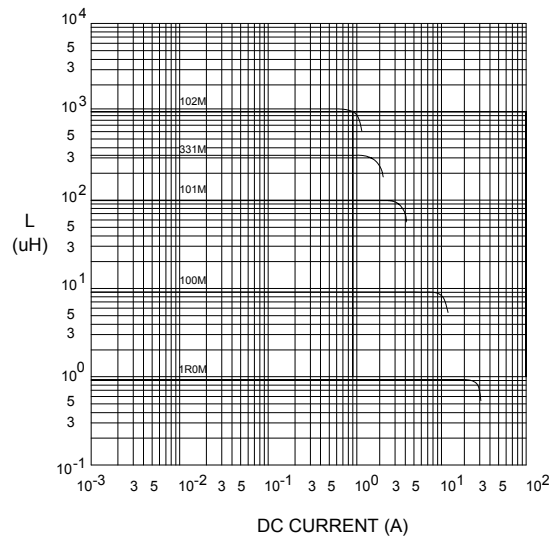
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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



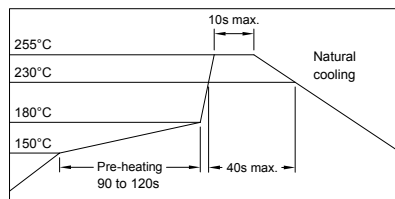
RoHS Compliant

01.05.2008



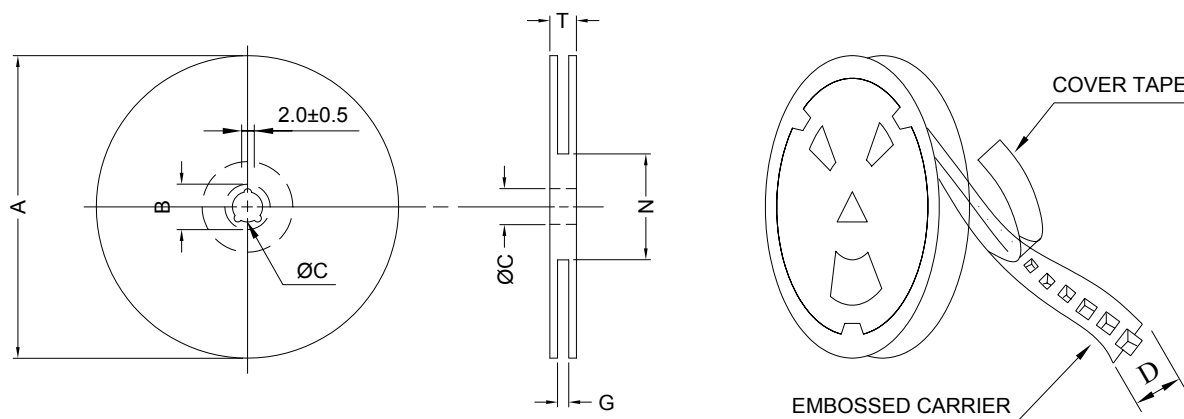
SUPERWORLD ELECTRONICS (S) PTE LTD

RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

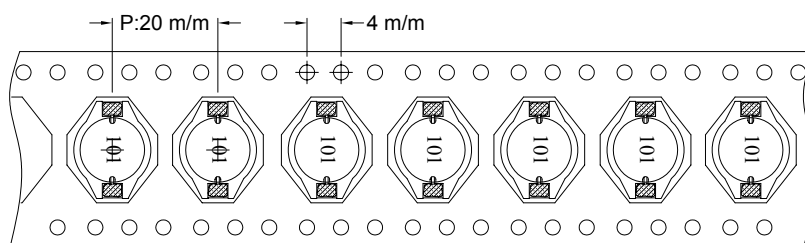


8. PACKAGING INFORMATION :

(1) CONFIGURATION



* CARRIER TAPE WIDTH : D



(2) DIMENSIONS

Unit:m/m

STYLE	A	B	C	D	G	N	T
13-32	330	21±0.8	13±0.5	32	34 ⁺⁰	100 ⁻⁰	38.4

(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)
PDB1507	350	1610	13-32	1400	10.0	40 x 20 x 26



RoHS Compliant

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

01.05.2008



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



RoHS Compliant

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

01.05.2008



SUPERWORLD ELECTRONICS (S) PTE LTD

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				

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 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.



RoHS Compliant

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

01.05.2008



SUPERWORLD ELECTRONICS (S) PTE LTD

PG. 6