

1. PART NO. EXPRESSION :

S D B 1 2 0 7 R 4 5 M Y F
(a) (b) (c) (d)(e)(f)

(a) Series code

(b) Dimension code

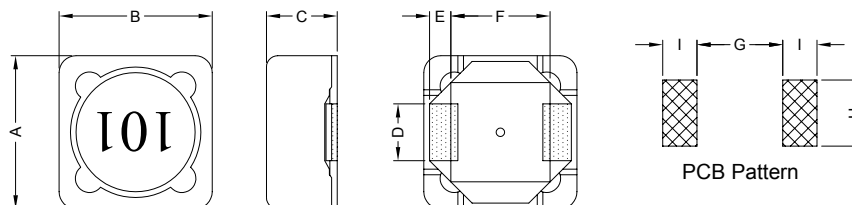
(c) Inductance code : R45 = 0.45uH

(d) Tolerance code : M = $\pm 20\%$

(e) X, Y, Z : Standard part

(f) F : Lead Free

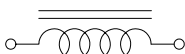
2. CONFIGURATION & DIMENSIONS :



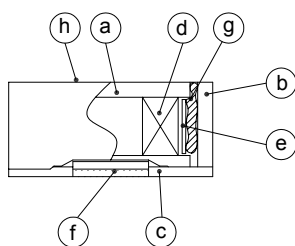
Unit:m/m

A	B	C	D	E	F	G	H	I
12.5 $\pm$ 0.3	12.5 $\pm$ 0.3	8.00 Max.	5.0 $\pm$ 0.2	2.2 $\pm$ 0.2	7.6 $\pm$ 0.2	7.0 Ref.	5.4 Ref.	2.8 Ref.

3. SCHEMATIC :



4. MATERIALS :



(a) Core : DR Ferrite Core

(b) Core : SI Ferrite Core

(c) Base : LCP

(d) Wire : Enamelled Copper Wire

(e) Tape : Mylar Tape

(f) Terminal : Tinned Copper Plate

(g) Adhesive : Epoxy

(h) Ink : Bon Margue

5. GENERAL SPECIFICATION :

- a) Temp. rise : 40°C Typ. at Irms
- b) $\Delta L/L0A = 10\%$ Typ. at Isat
- c) Storage temp. : -40°C to +125°C
- d) Operating temp. : -40°C to +85°C
- e) Resistance to solder heat : 260°C.10secs



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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Frequency (Hz)	RDC (m Ω) Max.	Isat (A)	Irms (A)
SDB1207R45MYF	0.45 $\pm$ 20%	0.25V / 100K	3.2	30.00	14.00
SDB1207R82MYF	0.82 $\pm$ 20%	0.25V / 100K	5.0	22.00	12.00
SDB12071R5MYF	1.50 $\pm$ 20%	0.25V / 100K	5.9	18.00	11.00
SDB12072R2MYF	2.20 $\pm$ 20%	0.25V / 100K	7.0	15.00	10.00
SDB12073R3MYF	3.30 $\pm$ 20%	0.25V / 100K	7.9	11.00	9.00
SDB12074R7MYF	4.70 $\pm$ 20%	0.25V / 100K	9.5	10.00	8.50
SDB12075R6MYF	5.60 $\pm$ 20%	0.25V / 100K	11.5	9.00	8.00
SDB12076R8MYF	6.80 $\pm$ 20%	0.25V / 100K	12.5	8.00	7.50
SDB12078R2MYF	8.20 $\pm$ 20%	0.25V / 100K	19.5	7.30	6.50
SDB1207100MYF	10.00 $\pm$ 20%	0.25V / 10K	20.1	6.80	6.00
SDB1207120MYF	12.00 $\pm$ 20%	0.25V / 10K	23.2	6.30	5.60
SDB1207150MYF	15.00 $\pm$ 20%	0.25V / 10K	31.9	5.80	5.00
SDB1207180MYF	18.00 $\pm$ 20%	0.25V / 10K	35.6	5.00	4.60
SDB1207220MYF	22.00 $\pm$ 20%	0.25V / 10K	41.0	4.50	4.30
SDB1207270MYF	27.00 $\pm$ 20%	0.25V / 10K	52.9	4.00	4.00
SDB1207330MYF	33.00 $\pm$ 20%	0.25V / 10K	59.4	3.70	3.50
SDB1207390MYF	39.00 $\pm$ 20%	0.25V / 10K	64.8	3.40	3.30
SDB1207470MYF	47.00 $\pm$ 20%	0.25V / 10K	90.0	3.20	3.00
SDB1207560MYF	56.00 $\pm$ 20%	0.25V / 10K	115.0	3.00	2.65
SDB1207680MYF	68.00 $\pm$ 20%	0.25V / 10K	134.0	2.70	2.35
SDB1207820MYF	82.00 $\pm$ 20%	0.25V / 10K	146.0	2.40	2.10
SDB1207101MYF	100.00 $\pm$ 20%	0.25V / 10K	156.0	2.20	2.00
SDB1207121MYF	120.00 $\pm$ 20%	0.25V / 10K	221.0	2.00	1.90
SDB1207151MYF	150.00 $\pm$ 20%	0.25V / 10K	246.0	1.80	1.70
SDB1207181MYF	180.00 $\pm$ 20%	0.25V / 10K	324.0	1.60	1.50
SDB1207221MYF	220.00 $\pm$ 20%	0.25V / 10K	367.0	1.50	1.40
SDB1207271MYF	270.00 $\pm$ 20%	0.25V / 10K	425.0	1.30	1.30
SDB1207331MYF	330.00 $\pm$ 20%	0.25V / 10K	560.0	1.20	1.10
SDB1207391MYF	390.00 $\pm$ 20%	0.25V / 10K	761.0	1.10	1.00
SDB1207471MYF	470.00 $\pm$ 20%	0.25V / 10K	855.0	1.00	0.95
SDB1207561MYF	560.00 $\pm$ 20%	0.25V / 10K	936.0	0.95	0.90
SDB1207681MYF	680.00 $\pm$ 20%	0.25V / 10K	1296.0	0.85	0.80
SDB1207821MYF	820.00 $\pm$ 20%	0.25V / 10K	1404.0	0.80	0.70
SDB1207102MYF	1000.00 $\pm$ 20%	0.25V / 10K	1620.0	0.70	0.60



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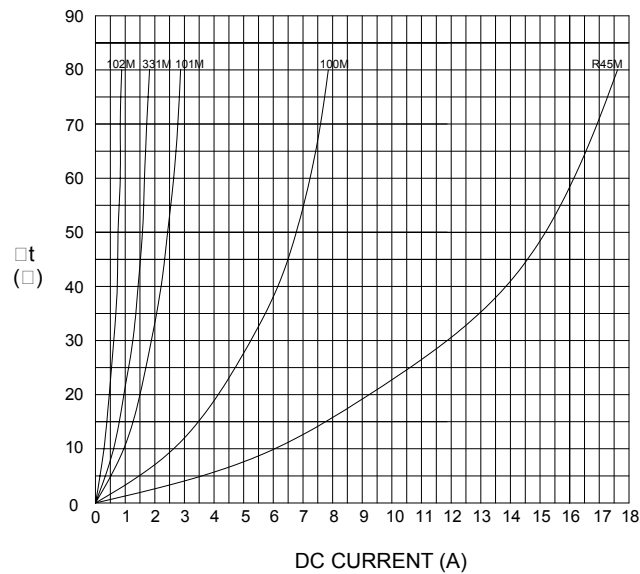
20.10.2008



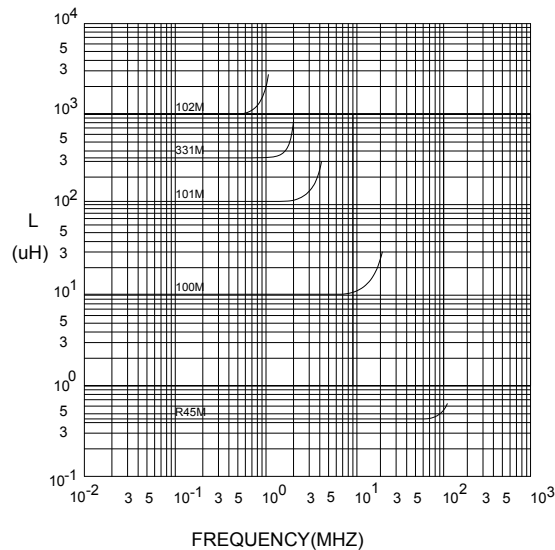
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7. CHARACTERISTICS CURVES :

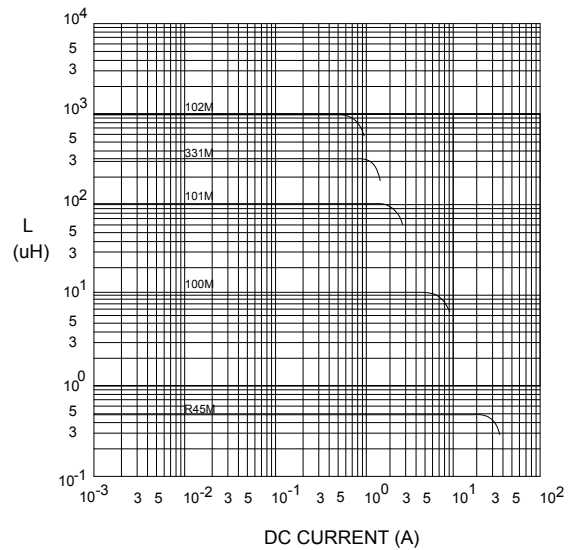
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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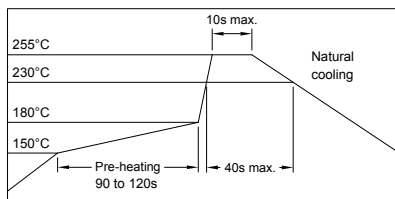
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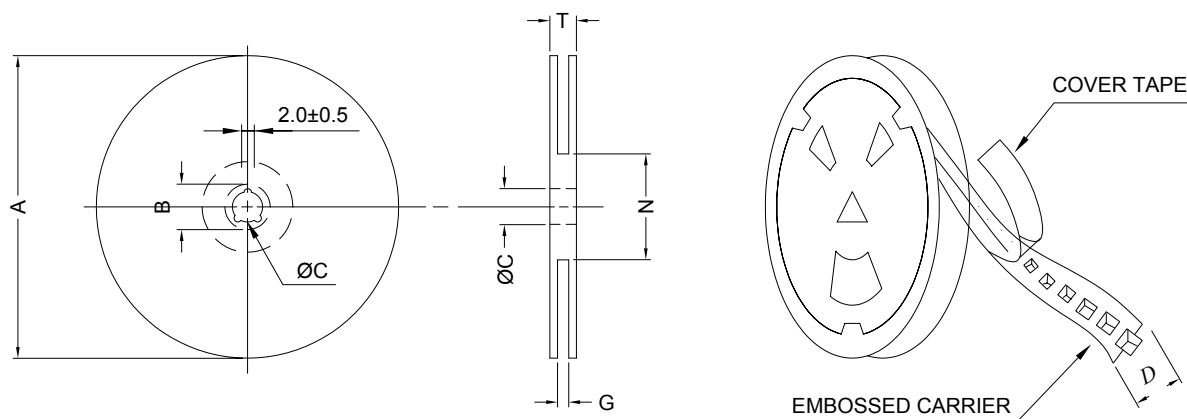
SUPERWORLD ELECTRONICS (S) PTE LTD

RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

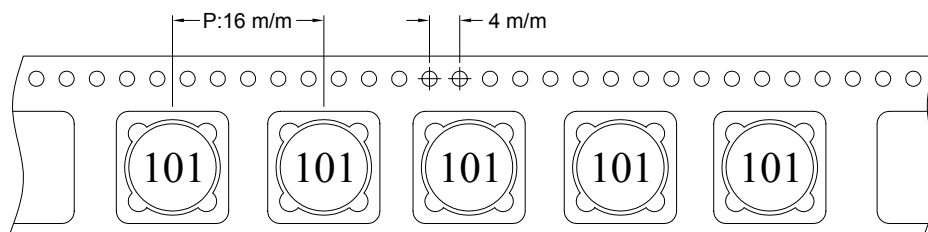


8. PACKAGING INFORMATION :

(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±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)
SDB1207	400	2100	13-24	1600	11.9	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



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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

Mtl Dsg	Coating Type		ANSI Type	TI
	BC	TC		
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		H W I	H A I	H V T R	D 4 9 5	C T I
					Mech with Imp	w/o Imp					
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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10. UL CARD :

TERAOKA SEISAKUSHO CO LTD	E56086 (S)
4-22 1-CHOME HIROMACHI SHINAGAWA-KU, TOKYO	
JAPAN	
Flame retardant aramid paper tape, Cat. Nos. 512F+, 560F+, 565S+, 681S+.	
Flame retardant aramid paper tape, Cat. Nos. 560S+, 561S+, 562S+, rated 200 C.	
Flame retardant acetate cloth tape, Cat. Nos. 570F+, 571F+, 573F+.	
Flame retardant polyester film tape, Cat. Nos. 680F+, 684F.	
Flame retardant glass cloth tape, Cat. Nos. 510F+, 540S+, 541F+, 685S+.	
Flame retardant glass cloth tape, Cat. No. 54S, rated 200 C.	
Flame retardant cotton cloth tape, Cat. Nos. 590F+, 715F+.	
Flame retardant polyimide film tape, Cat. No. 650S+, rated 200 C.	
Flame retardant tellon tape, Cat. Nos. 841+, 846+.	
Flame retardant PVC tape, Cat. Nos. 305F+, 307F+, 380F+.	
Flame retardant polyester fiber tape, Cat. Nos. 511F+, 551F+.	
Flame retardant epoxy varnish impregnated polyester web tape, Cat. Nos. 530F+.	
Flame retardant epoxy varnish impregnated glass paper tape, Cat. No. 531F+.	
Flame retardant copper foil tape, Cat. No. 831S+.	
Flame retardant copper foil tape, Cat. No. 8321+.	
Flame retardant aluminum foil tape, Cat. Nos. 833+, 834+.	
Epoxy varnish impregnated polyester non-woven fabric tape, cat. no. 530F° rated 150 C.	
polyester film tape, Cat. Nos. 631S°, 632S, rated 130 C.	
Flame retardant polyester film tape, Cat. No. 630F°, rated 130 C.	
Flame retardant polyester film/epoxy varnish impregnated polyester fiber tape Cat. No. 673F°, rated 130 C.	
Flame retardant polyester film/epoxy varnish impregnated polyester fiber/polyester film tape, Cat. No. 850F°, rated 130 C.	
+ - Subjected to Flame Retardant tests only.	
° - Complies with Flame Retardant requirements when so marked.	
Marking: Company name or "E56086" and catalog designation and "Flame Retardant" if apply, bie. printed on the central paper or outer package.	

QMFZ2	January 15, 1991
Component-Plastics	
SUMITOMO BAKELITE CO LTD	E41429 (M)
	(11-cont. from I card)
PM-9630	BK 0.40 94V-0 150 150 150 — — — — —
	0.51 94V-0 150 150 150 0 0 — — —
	3.18 94V-0 150 150 150 0 1 0 4 3
PM-8315	BK 0.50 94V-0 150 150 150 3 0 0 — —
PM-8315J	BN 0.71 94V-0 150 150 150 2 0 0 — —
	1.47 94V-0 150 150 150 0 2 0 — —
	3.05 94V-0 150 150 150 0 1 0 5 4
	6.10 94V-0 150 150 150 0 1 0 5 4
PM-8315K	BK 0.78 94V-1 150 150 150 — — — — —
	1.52 94V-0 150 150 150 — — — — —
PM-8320J	BK 0.71 94HB 150 150 150 — — — — —
PM-8330	BK 0.71 94V-1 150 150 150 — — — — —
	1.57 94V-0 150 150 150 — — — — —
PM-8400	BK 0.71 94HB 150 150 150 — — — — —
PM-9830	BK 0.69 94V-0 150 150 150 0 0 — — —
	3.18 94V-0 150 150 150 0 0 0 4 3
Reports: March 29, 1985: May 14, 1974: September 16, 1971: September 16, 1971: September 16, 1971: September 16, 1971: March 29, 1985.	
Replaces E4142911 dated February 28, 1990.	(Cont. on J card)
683540014 N7047 Underwriters Laboratories Inc. ®	D11/0043416



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