

1. PART NO. EXPRESSION :

S D B 1 1 0 5 1 0 1 M Z F
(a) (b) (c) (d)(e)(f)

(a) Series code

(b) Dimension code

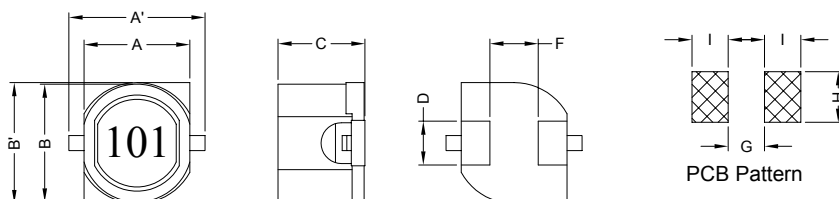
(c) Inductance code : 101 = 100uH

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

(e) X, Y, Z : Standard part

(f) F : Lead Free

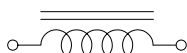
2. CONFIGURATION & DIMENSIONS :



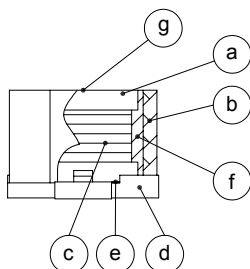
Unit:m/m

A'	A	B'	B	C	D	F	G	H	I
15.0 Max.	11.6 Ref.	12.7 $\pm$ 0.3	12.6 Ref.	5.7 $\pm$ 0.3	3.0 $\pm$ 0.2	8.2 $\pm$ 0.3	7.3 Ref.	3.9 Ref.	2.8 Ref.

3. SCHEMATIC :



4. MATERIALS :



(a) Core : DR Ferrite Core

(b) Core : RI Ferrite Core

(c) Wire : Enamelled Copper Wire

(d) Base : Phenolic

(e) Adhesive : Epoxy

(f) Adhesive : Epoxy

(g) Ink : Bon Margue

5. GENERAL SPECIFICATION :

a) Temp. rise : 50°C Max.

b) Rated current : Base on temp. rise $\Delta L/L0A = 10\%$ Typ.

c) Storage temp. : -40°C to +125°C

d) Operating temp. : -40°C to +75°C

e) Resistance to solder heat : 260°C.10 secs



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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Freq. (Hz)	RDC (Ω) Max.	IDC (A)
SDB1105100MZF	10 $\pm$ 20%	1V/1K	0.05	2.50
SDB1105120MZF	12 $\pm$ 20%	1V/1K	0.05	2.40
SDB1105150MZF	15 $\pm$ 20%	1V/1K	0.06	2.30
SDB1105180MZF	18 $\pm$ 20%	1V/1K	0.07	2.20
SDB1105220MZF	22 $\pm$ 20%	1V/1K	0.08	2.10
SDB1105270MZF	27 $\pm$ 20%	1V/1K	0.10	2.00
SDB1105330MZF	33 $\pm$ 20%	1V/1K	0.10	1.90
SDB1105390MZF	39 $\pm$ 20%	1V/1K	0.12	1.80
SDB1105470MZF	47 $\pm$ 20%	1V/1K	0.14	1.60
SDB1105560MZF	56 $\pm$ 20%	1V/1K	0.15	1.40
SDB1105680MZF	68 $\pm$ 20%	1V/1K	0.18	1.30
SDB1105820MZF	82 $\pm$ 20%	1V/1K	0.20	1.20
SDB1105101MZF	100 $\pm$ 20%	1V/1K	0.25	1.10
SDB1105121MZF	120 $\pm$ 20%	1V/1K	0.30	0.97
SDB1105151MZF	150 $\pm$ 20%	1V/1K	0.35	0.86
SDB1105181MZF	180 $\pm$ 20%	1V/1K	0.40	0.84
SDB1105221MZF	220 $\pm$ 20%	1V/1K	0.50	0.72
SDB1105271MZF	270 $\pm$ 20%	1V/1K	0.60	0.65
SDB1105331MZF	330 $\pm$ 20%	1V/1K	0.70	0.61
SDB1105391MZF	390 $\pm$ 20%	1V/1K	0.80	0.58
SDB1105471MZF	470 $\pm$ 20%	1V/1K	0.90	0.50
SDB1105561MZF	560 $\pm$ 20%	1V/1K	1.10	0.48
SDB1105681MZF	680 $\pm$ 20%	1V/1K	1.20	0.43
SDB1105821MZF	820 $\pm$ 20%	1V/1K	1.50	0.38
SDB1105102MZF	1000 $\pm$ 20%	1V/1K	2.00	0.35
SDB1105122MZF	1200 $\pm$ 20%	1V/1K	2.20	0.32
SDB1105152MZF	1500 $\pm$ 20%	1V/1K	2.50	0.30



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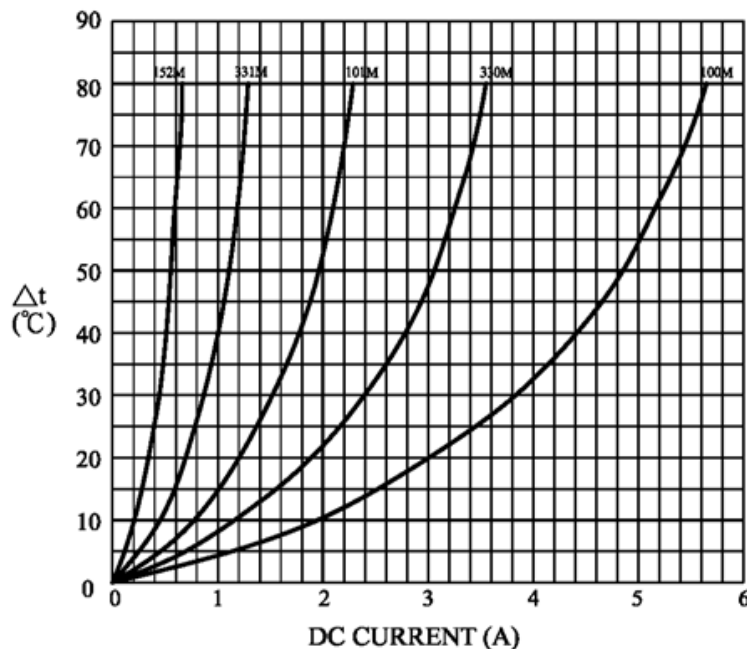
05.05.2008



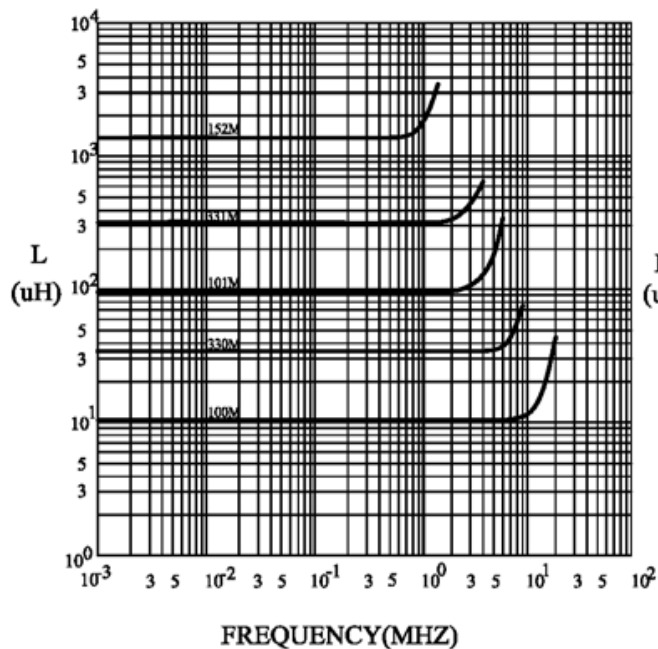
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6. ELECTRICAL CHARACTERISTICS :

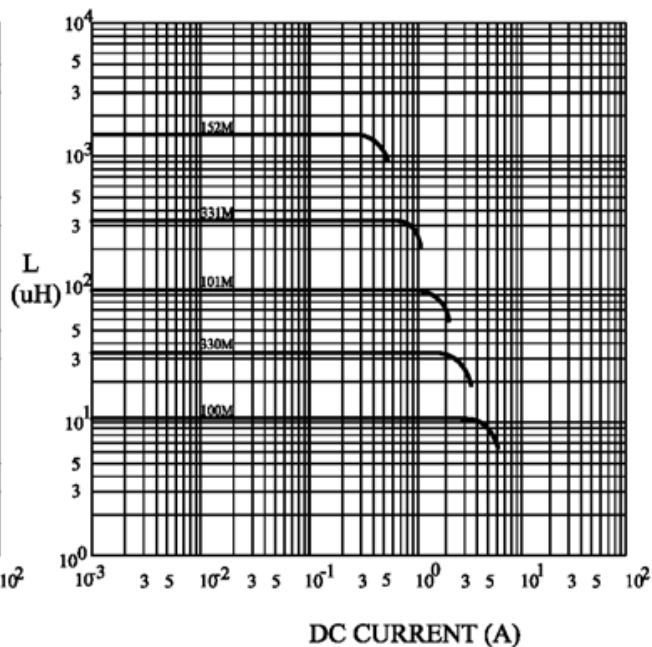
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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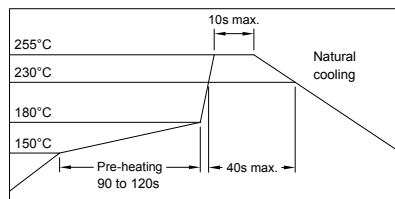
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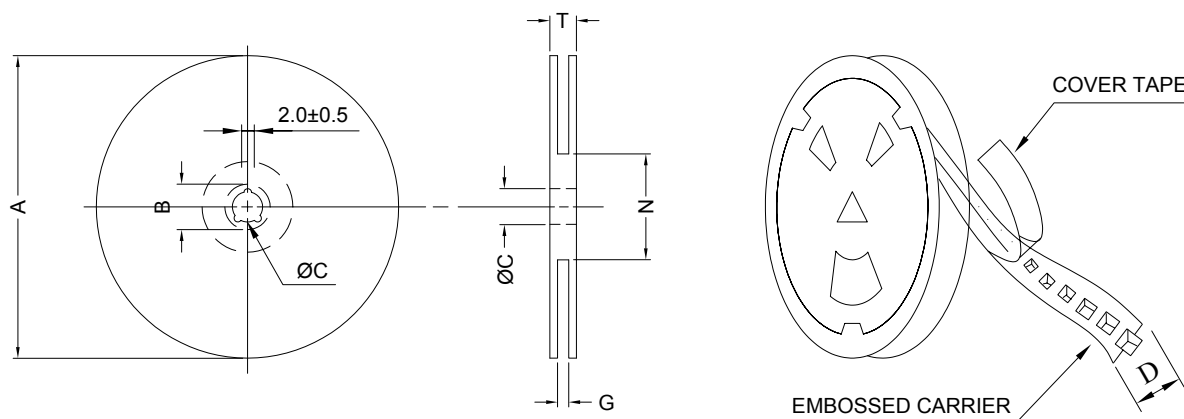
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

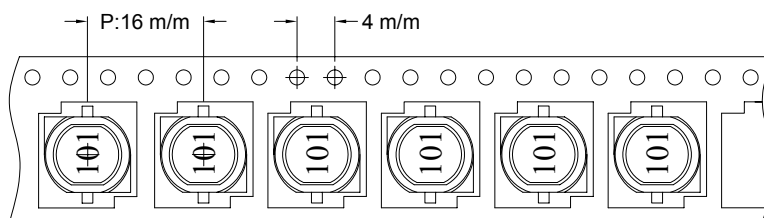


7. PACKAGING INFORMATION :

(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)
SDB1105	500	1500	13-24	2000	9.5	40 x 40 x 24



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05.05.2008



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8. 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

PG. 5

9. 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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PG. 6