

1. PART NO. EXPRESSION :

SSB0705101MZ F

(a) (b) (c) (d)(e)(f)

(a) Series code

(b) Dimension code

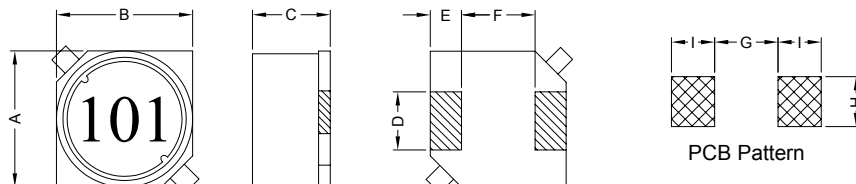
(c) Inductance code : 101 = 100uH

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

(e) X, Y, Z : Standard part

(f) F : Lead Free

2. CONFIGURATION & DIMENSIONS :



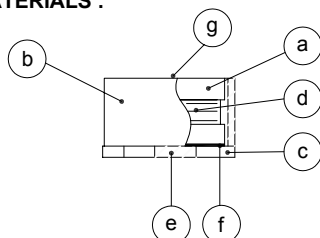
Unit:m/m

A	B	C	D	E	F	G	H	I
7.0 $\pm$ 0.3	7.0 $\pm$ 0.3	4.6 $\pm$ 0.3	2.0 $\pm$ 0.2	1.5 $\pm$ 0.2	4.0 $\pm$ 0.2	3.7 Ref.	2.2 Ref.	1.9 Ref.

3. SCHEMATIC :



4. MATERIALS :



(a) Core : DR Ferrite Core

(b) Core : RI Ferrite Core

(c) Base : LCP

(d) Wire : Enamelled Copper Wire

(e) Terminal : Tinned Copper Plate

(f) Adhesive : Epoxy

(g) 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



RoHS Compliant

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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Frequency (Hz)	RDC (m Ω) Max.	IDC (A) Max.
SSB07051R0MZ	1.0 $\pm$ 20%	1V/ 100K	20	3.00
SSB07051R5MZ	1.5 $\pm$ 20%	1V/ 100K	23	2.90
SSB07052R2MZ	2.2 $\pm$ 20%	1V/ 100K	26	2.70
SSB07053R3MZ	3.3 $\pm$ 20%	1V/ 100K	30	2.50
SSB07054R7MZ	4.7 $\pm$ 20%	1V/ 100K	36	2.00
SSB07056R8MZ	6.8 $\pm$ 20%	1V/ 100K	45	1.90
SSB0705100MZ	10.0 $\pm$ 20%	1V/ 100K	60	1.70
SSB0705120MZ	12.0 $\pm$ 20%	1V/ 100K	65	1.55
SSB0705150MZ	15.0 $\pm$ 20%	1V/ 100K	70	1.45
SSB0705180MZ	18.0 $\pm$ 20%	1V/ 100K	80	1.20
SSB0705220MZ	22.0 $\pm$ 20%	1V/ 100K	90	1.15
SSB0705270MZ	27.0 $\pm$ 20%	1V/ 100K	120	1.00
SSB0705330MZ	33.0 $\pm$ 20%	1V/ 100K	135	0.90
SSB0705390MZ	39.0 $\pm$ 20%	1V/ 100K	150	0.85
SSB0705470MZ	47.0 $\pm$ 20%	1V/ 100K	170	0.80
SSB0705560MZ	56.0 $\pm$ 20%	1V/ 100K	230	0.70
SSB0705680MZ	68.0 $\pm$ 20%	1V/ 100K	270	0.65
SSB0705820MZ	82.0 $\pm$ 20%	1V/ 100K	300	0.57
SSB0705101MZ	100.0 $\pm$ 20%	1V / 100K	360	0.50
SSB0705121MZ	120.0 $\pm$ 20%	1V / 100K	400	0.47
SSB0705151MZ	150.0 $\pm$ 20%	1V / 100K	530	0.40
SSB0705181MZ	180.0 $\pm$ 20%	1V / 100K	600	0.38
SSB0705221MZ	220.0 $\pm$ 20%	1V / 100K	800	0.35
SSB0705271MZ	270.0 $\pm$ 20%	1V / 100K	900	0.32
SSB0705331MZ	330.0 $\pm$ 20%	1V / 100K	1000	0.30
SSB0705391MZ	390.0 $\pm$ 20%	1V / 100K	1400	0.27
SSB0705471MZ	470.0 $\pm$ 20%	1V / 100K	1600	0.25
SSB0705561MZ	560.0 $\pm$ 20%	1V / 100K	1750	0.22
SSB0705681MZ	680.0 $\pm$ 20%	1V / 100K	2500	0.20
SSB0705821MZ	820.0 $\pm$ 20%	1V / 100K	2800	0.19
SSB0705102MZ	1000.0 $\pm$ 20%	1V / 100K	3200	0.18



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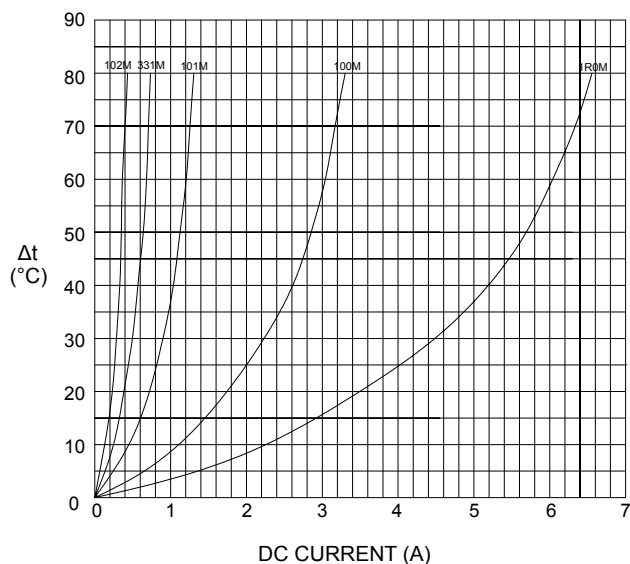
18.04.2008



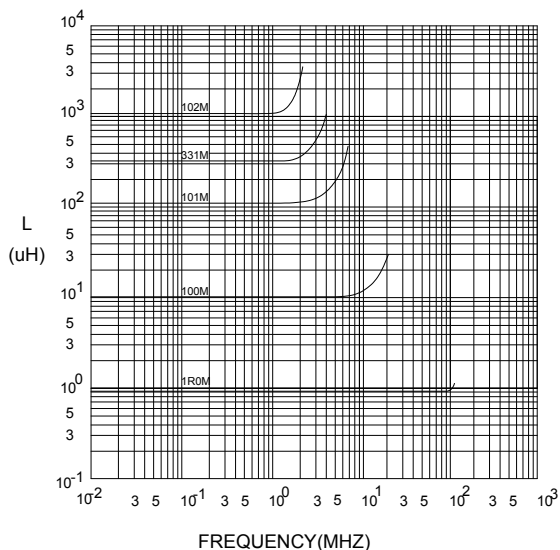
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7. CHARACTERISTICS CURVES :

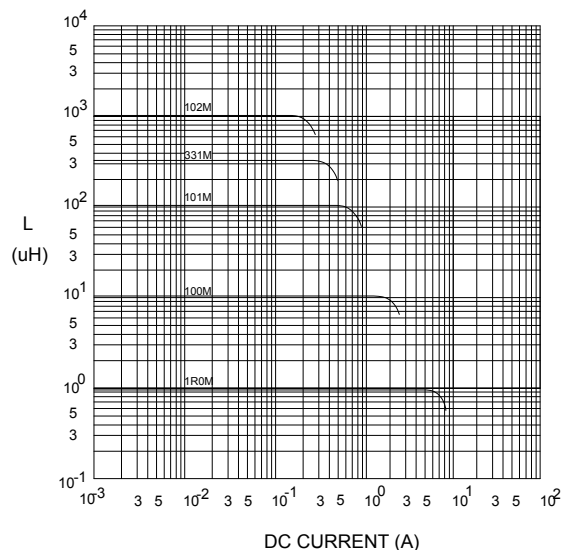
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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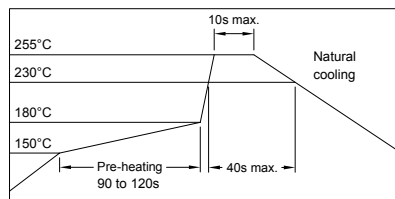
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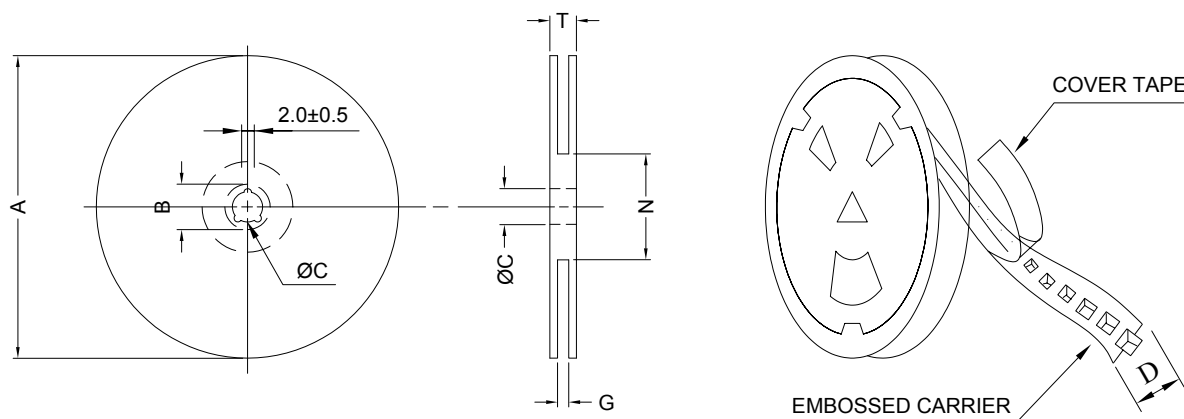
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

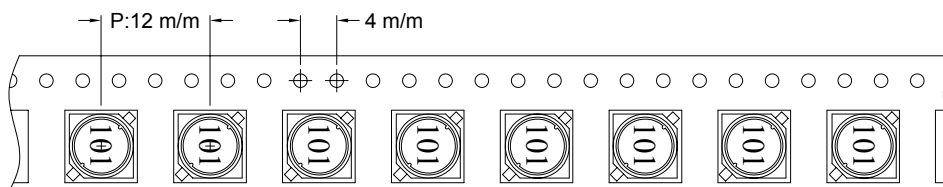


8. PACKAGING INFORMATION :

(1) CONFIGURATION



* CARRIER TAPE WIDTH : D



(2) DIMENSIONS

Unit:m/m

STYLE	A	B	C	D	G	N	T
13-16	330	21±0.8	13	16	18 ⁺⁰	50 ⁻⁰	22.4

(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)
SSB0705	1000	717	13-16	6000	7.9	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%	<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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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

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	130	130	130	—	—	—	—	—
		3.0	94V-0	220	200	240	2	4	—	—	—
E400(Y)L, E4008L	NC, BK	0.30	94V-0	130	130	130	1	4	0	5	4
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
E4810	NC, BK	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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