

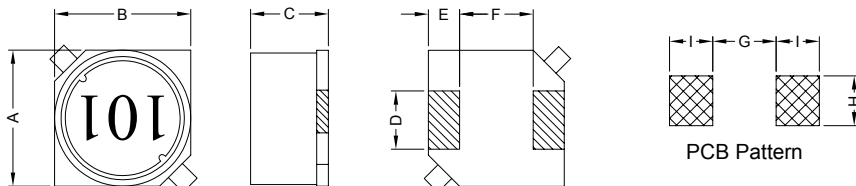
### 1. PART NO. EXPRESSION :

SSB0703101MZ F

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

- (a) Series code
- (b) Dimension code
- (c) Inductance code : 101 = 100uH
- (d) Tolerance code : M = ±20%
- (e) X, Y, Z : Standard part
- (f) F : Lead Free

### 2. CONFIGURATION & DIMENSIONS :



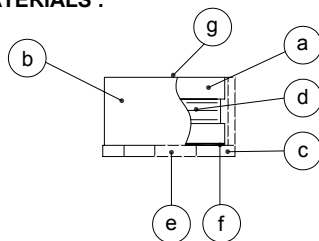
Unit:m/m

A	B	C	D	E	F	G	H	I
7.0±0.3	7.0±0.3	3.0±0.3	2.0±0.2	1.5±0.2	4.0±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



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## 6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance ( $\mu$ H)	Test Frequency (Hz)	RDC (m $\Omega$ ) Max.	IDC (A) Max.
SSB07031R0MZF	1.0 $\pm$ 20%	1V / 100K	26	3.25
SSB07031R5MZF	1.5 $\pm$ 20%	1V / 100K	31	3.00
SSB07032R2MZF	2.2 $\pm$ 20%	1V / 100K	37	2.55
SSB07033R3MZF	3.3 $\pm$ 20%	1V / 100K	48	2.40
SSB07034R7MZF	4.7 $\pm$ 20%	1V / 100K	55	2.10
SSB07036R8MZF	6.8 $\pm$ 20%	1V / 100K	75	1.90
SSB0703100MZF	10.0 $\pm$ 20%	1V / 100K	100	1.50
SSB0703120MZF	12.0 $\pm$ 20%	1V / 100K	120	1.45
SSB0703150MZF	15.0 $\pm$ 20%	1V / 100K	130	1.20
SSB0703180MZF	18.0 $\pm$ 20%	1V / 100K	160	1.15
SSB0703220MZF	22.0 $\pm$ 20%	1V / 100K	190	1.05
SSB0703270MZF	27.0 $\pm$ 20%	1V / 100K	240	1.00
SSB0703330MZF	33.0 $\pm$ 20%	1V / 100K	300	0.90
SSB0703390MZF	39.0 $\pm$ 20%	1V / 100K	340	0.80
SSB0703470MZF	47.0 $\pm$ 20%	1V / 100K	400	0.75
SSB0703560MZF	56.0 $\pm$ 20%	1V / 100K	550	0.68
SSB0703680MZF	68.0 $\pm$ 20%	1V / 100K	650	0.65
SSB0703820MZF	82.0 $\pm$ 20%	1V / 100K	720	0.60
SSB0703101MZF	100.0 $\pm$ 20%	1V / 100K	820	0.50
SSB0703121MZF	120.0 $\pm$ 20%	1V / 100K	1100	0.48
SSB0703151MZF	150.0 $\pm$ 20%	1V / 100K	1300	0.45
SSB0703181MZF	180.0 $\pm$ 20%	1V / 100K	1500	0.38
SSB0703221MZF	220.0 $\pm$ 20%	1V / 100K	2100	0.35
SSB0703271MZF	270.0 $\pm$ 20%	1V / 100K	2400	0.30
SSB0703331MZF	330.0 $\pm$ 20%	1V / 100K	3100	0.28
SSB0703391MZF	390.0 $\pm$ 20%	1V / 100K	4100	0.25
SSB0703471MZF	470.0 $\pm$ 20%	1V / 100K	4400	0.23
SSB0703561MZF	560.0 $\pm$ 20%	1V / 100K	5100	0.20
SSB0703681MZF	680.0 $\pm$ 20%	1V / 100K	7100	0.18
SSB0703821MZF	820.0 $\pm$ 20%	1V / 100K	7900	0.17
SSB0703102MZF	1000.0 $\pm$ 20%	1V / 100K	9000	0.16



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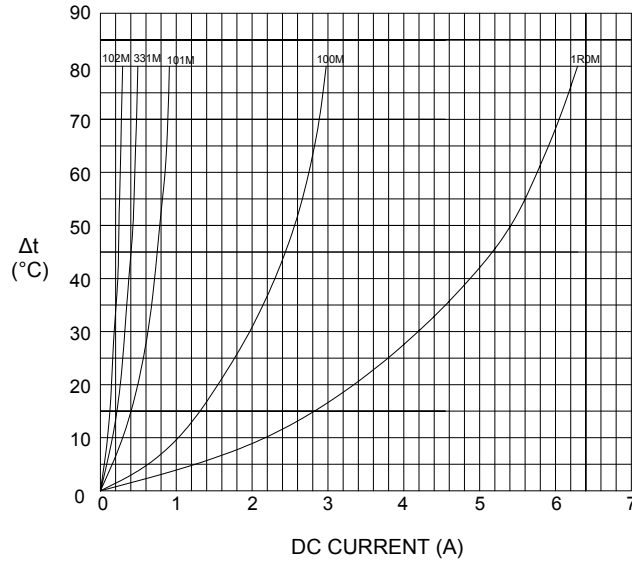


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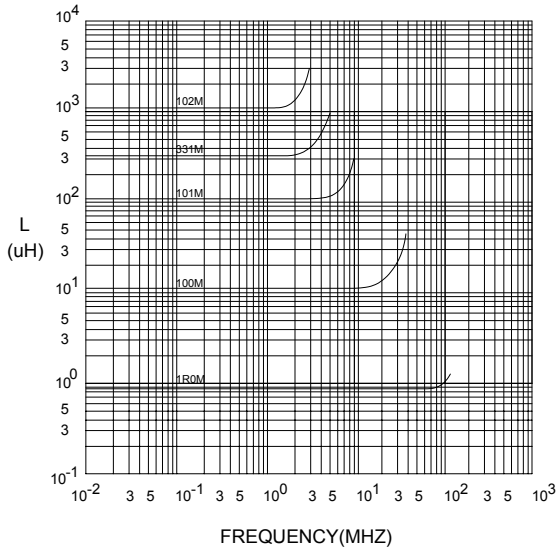
PG. 2

## 7. CHARACTERISTICS CURVES :

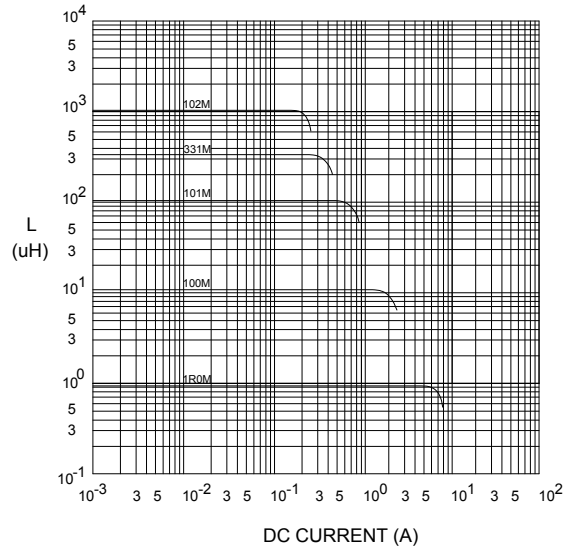
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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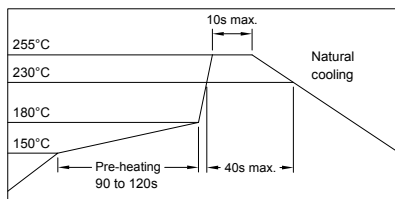
**RoHS Compliant**

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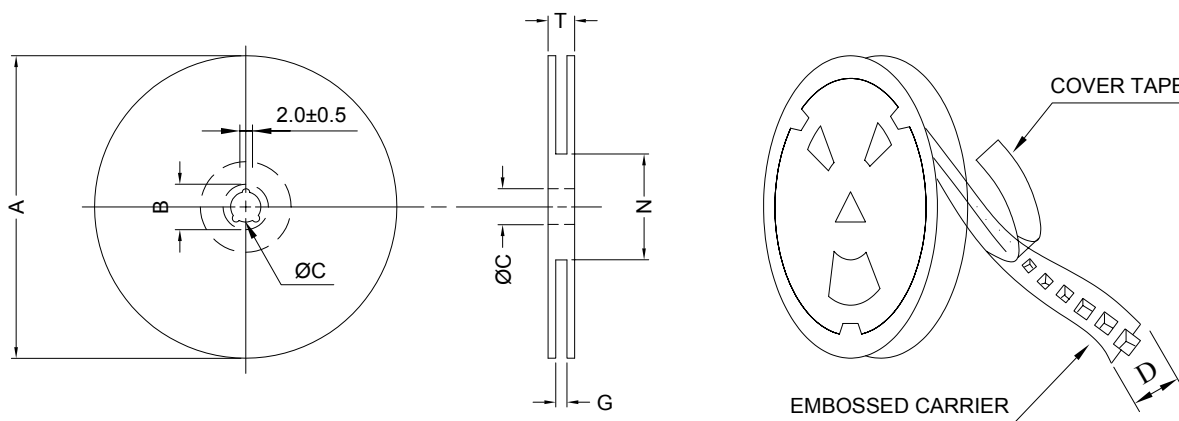
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### RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

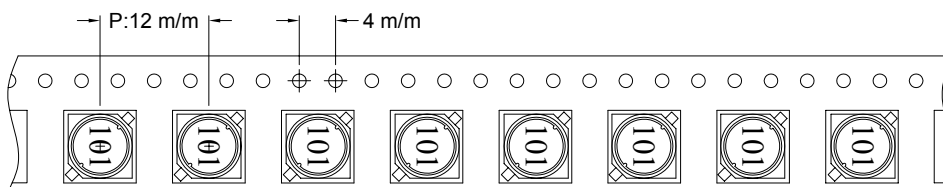


### 8. PACKAGING INFORMATION :

#### ( 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 <sup>+0</sup>	50 <sup>-0</sup>	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)
SSB0703	1000	630	13-16	6000	7.3	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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**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		<b>Polyurethane</b>	—	—	<b>130</b>
PEW/U		<b>Polyester</b>	—	<b>MW5-C</b>	<b>155°C</b>
PEWH/U		<b>Modified Polyester</b>	—	<b>MW30-C</b>	<b>180</b>
PEW-NY/U		<b>Polyester</b>	<b>Polyamide</b>	<b>MW24-C</b>	<b>155</b>
HAI/U		<b>Polyester(Amide)(Imide)</b>	<b>Polyamideimide</b>	<b>MW35,73</b>	<b>200</b>
UEW-NY/U		<b>Polyurethane</b>	<b>Polyamide</b>	<b>MW80-C</b>	<b>155</b>
				<b>MW28-C</b>	<b>130</b>

**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		w/o Imp	H W I	H A I	H V R	D 4 5	C T I
					with Imp	Mech						
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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