

1. PART NO. EXPRESSION :

SSB0603101MZ F

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

(a) Series code

(b) Dimension code

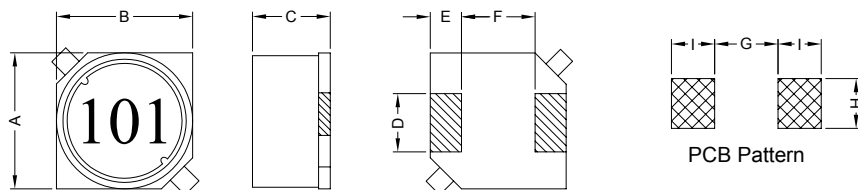
(c) Inductance code : 101 = 100uH

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

(e) X, Y, Z : Standard part

(f) F : Lead Free

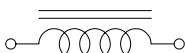
2. CONFIGURATION & DIMENSIONS :



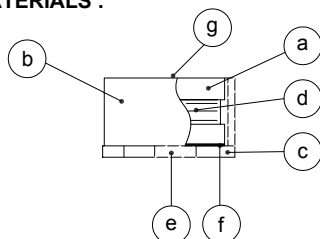
Unit:m/m

A	B	C	D	E	F	G	H	I
6.0 $\pm$ 0.3	6.0 $\pm$ 0.3	2.9 $\pm$ 0.3	2.0 $\pm$ 0.2	1.5 $\pm$ 0.2	3.0 $\pm$ 0.2	2.8 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 (μ H)	Q Ref.	Test Frequency (Hz)	SRF (MHz) Typ.	RDC (m Ω) Max.	IDC (A) Max.
SSB06031R0MZF	1.0 $\pm$ 20%	30	1V / 100K	190.0	19	2.40
SSB06031R5MZF	1.5 $\pm$ 20%	30	1V / 100K	140.0	25	2.20
SSB06032R2MZF	2.2 $\pm$ 20%	35	1V / 100K	100.0	32	1.90
SSB06033R3MZF	3.3 $\pm$ 20%	35	1V / 100K	85.0	50	1.50
SSB06034R7MZF	4.7 $\pm$ 20%	35	1V / 100K	65.0	60	1.30
SSB06036R8MZF	6.8 $\pm$ 20%	35	1V / 100K	55.0	70	1.20
SSB0603100MZF	10.0 $\pm$ 20%	40	1V / 100K	45.0	120	1.00
SSB0603120MZF	12.0 $\pm$ 20%	40	1V / 100K	40.0	130	0.90
SSB0603150MZF	15.0 $\pm$ 20%	35	1V / 100K	38.0	150	0.80
SSB0603180MZF	18.0 $\pm$ 20%	35	1V / 100K	35.0	160	0.75
SSB0603220MZF	22.0 $\pm$ 20%	40	1V / 100K	26.0	230	0.65
SSB0603270MZF	27.0 $\pm$ 20%	40	1V / 100K	24.0	250	0.60
SSB0603330MZF	33.0 $\pm$ 20%	45	1V / 100K	22.0	340	0.55
SSB0603390MZF	39.0 $\pm$ 20%	45	1V / 100K	20.0	380	0.52
SSB0603470MZF	47.0 $\pm$ 20%	45	1V / 100K	19.0	420	0.50
SSB0603560MZF	56.0 $\pm$ 20%	45	1V / 100K	17.0	570	0.48
SSB0603680MZF	68.0 $\pm$ 20%	50	1V / 100K	14.0	620	0.45
SSB0603820MZF	82.0 $\pm$ 20%	50	1V / 100K	13.0	900	0.40
SSB0603101MZF	100.0 $\pm$ 20%	50	1V / 100K	12.0	990	0.35
SSB0603121MZF	120.0 $\pm$ 20%	50	1V / 100K	11.0	1150	0.30
SSB0603151MZF	150.0 $\pm$ 20%	50	1V / 100K	9.0	1750	0.28
SSB0603181MZF	180.0 $\pm$ 20%	55	1V / 100K	8.0	1950	0.26
SSB0603221MZF	220.0 $\pm$ 20%	55	1V / 100K	7.5	2200	0.22
SSB0603271MZF	270.0 $\pm$ 20%	55	1V / 100K	7.0	2500	0.20
SSB0603331MZF	330.0 $\pm$ 20%	55	1V / 100K	6.0	3200	0.18
SSB0603391MZF	390.0 $\pm$ 20%	55	1V / 100K	5.5	3500	0.17
SSB0603471MZF	470.0 $\pm$ 20%	55	1V / 100K	5.0	4950	0.16
SSB0603561MZF	560.0 $\pm$ 20%	55	1V / 100K	4.8	5350	0.15
SSB0603681MZF	680.0 $\pm$ 20%	55	1V / 100K	4.5	6300	0.14
SSB0603821MZF	820.0 $\pm$ 20%	55	1V / 100K	4.0	8200	0.13
SSB0603102MZF	1000.0 $\pm$ 20%	55	1V / 100K	3.5	9200	0.12



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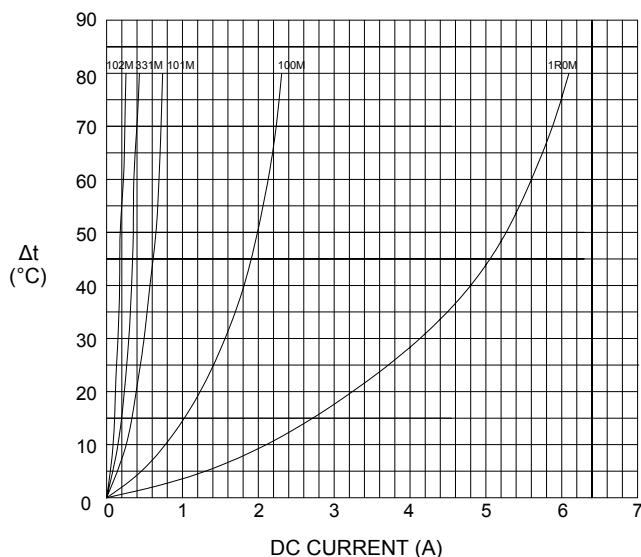
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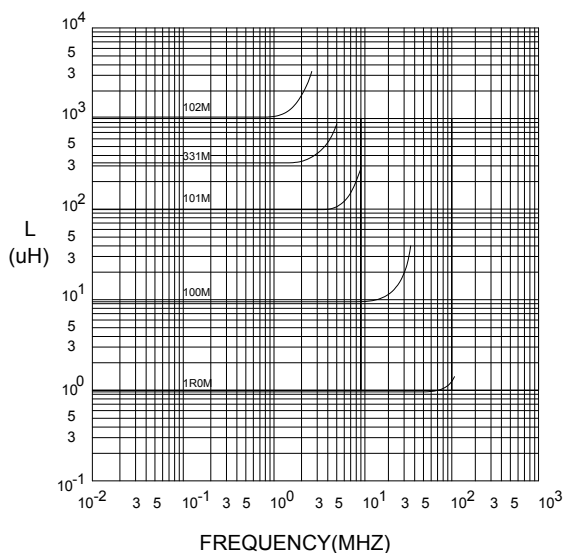
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7. CHARACTERISTICS CURVES :

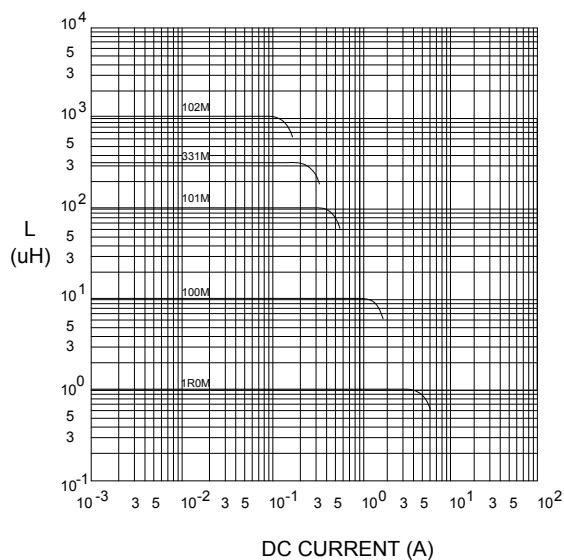
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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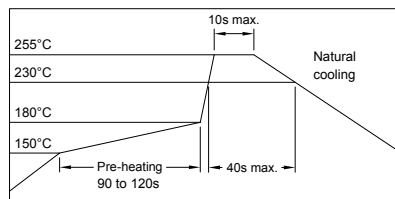
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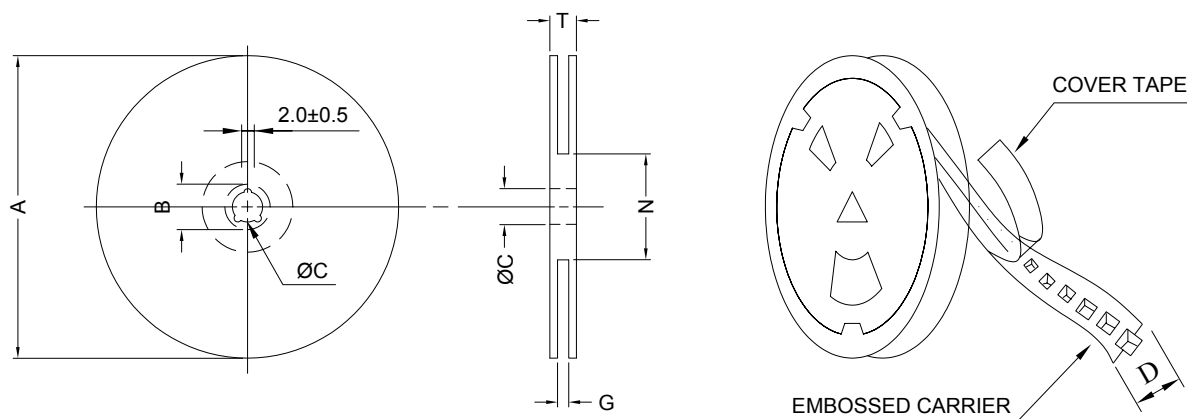
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

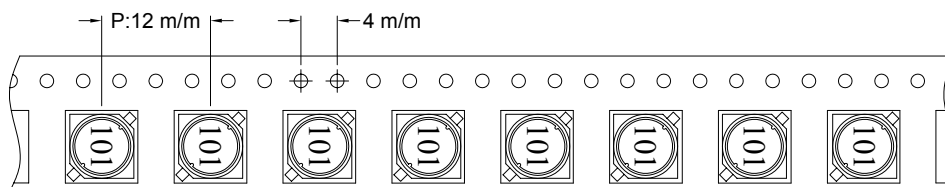


8. PACKAGING INFORMATION :

(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)
SSB0603	1000	800	13-16	6000	8.3	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%	<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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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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