SMD POWER INDUCTORS

SSB0604 SERIES

1. PART NO. EXPRESSION :

S S B 0 6 0 4 1 0 1 M Z F

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

(a) Series code

(b) Dimension code

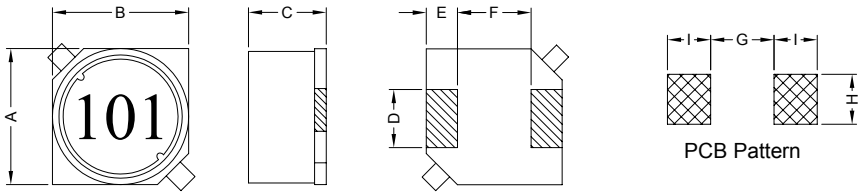
(c) Inductance code : 101 = 100uH

(d) Tolerance code : M = ±20%

(e) X, Y, Z : Standard part

(f) F : Lead Free

2. CONFIGURATION & DIMENSIONS :

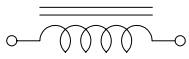


PCB Pattern

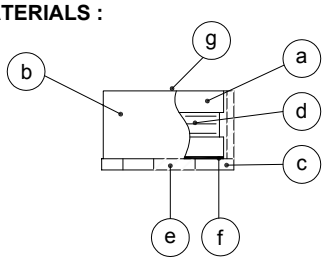
Unit:m/m

A	B	C	D	E	F	G	H	I
6.0±0.3	6.0±0.3	3.9±0.3	2.0±0.2	1.5±0.2	3.0±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 & ΔL/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

Pb

RoHS Compliant

NOTE : Specifications subject to change without notice. Please check our website for latest information.

6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μH)	Test Frequency (Hz)	RDC (mΩ) Max.	IDC (A) Max.
SSB06041R0MZF	1.0±20%	1V / 100K	22	2.50
SSB06041R5MZF	1.5±20%	1V / 100K	25	2.20
SSB06042R2MZF	2.2±20%	1V / 100K	30	1.90
SSB06043R3MZF	3.3±20%	1V / 100K	35	1.70
SSB06044R7MZF	4.7±20%	1V / 100K	50	1.30
SSB06046R8MZF	6.8±20%	1V / 100K	55	1.10
SSB0604100MZF	10.0±20%	1V / 100K	65	1.00
SSB0604120MZF	12.0±20%	1V / 100K	90	0.90
SSB0604150MZF	15.0±20%	1V / 100K	100	0.80
SSB0604180MZF	18.0±20%	1V / 100K	110	0.70
SSB0604220MZF	22.0±20%	1V / 100K	150	0.65
SSB0604270MZF	27.0±20%	1V / 100K	170	0.60
SSB0604330MZF	33.0±20%	1V / 100K	220	0.55
SSB0604390MZF	39.0±20%	1V / 100K	240	0.50
SSB0604470MZF	47.0±20%	1V / 100K	300	0.47
SSB0604560MZF	56.0±20%	1V / 100K	340	0.42
SSB0604680MZF	68.0±20%	1V / 100K	390	0.40
SSB0604820MZF	82.0±20%	1V / 100K	500	0.35
SSB0604101MZF	100.0±20%	1V / 100K	570	0.32
SSB0604121MZF	120.0±20%	1V / 100K	630	0.30
SSB0604151MZF	150.0±20%	1V / 100K	900	0.27
SSB0604181MZF	180.0±20%	1V / 100K	990	0.25
SSB0604221MZF	220.0±20%	1V / 100K	1150	0.22
SSB0604271MZF	270.0±20%	1V / 100K	1550	0.20
SSB0604331MZF	330.0±20%	1V / 100K	1760	0.18
SSB0604391MZF	390.0±20%	1V / 100K	2600	0.17
SSB0604471MZF	470.0±20%	1V / 100K	3000	0.16
SSB0604561MZF	560.0±20%	1V / 100K	3300	0.15
SSB0604681MZF	680.0±20%	1V / 100K	3700	0.13
SSB0604821MZF	820.0±20%	1V / 100K	4900	0.12
SSB0604102MZF	1000.0±20%	1V / 100K	5700	0.11

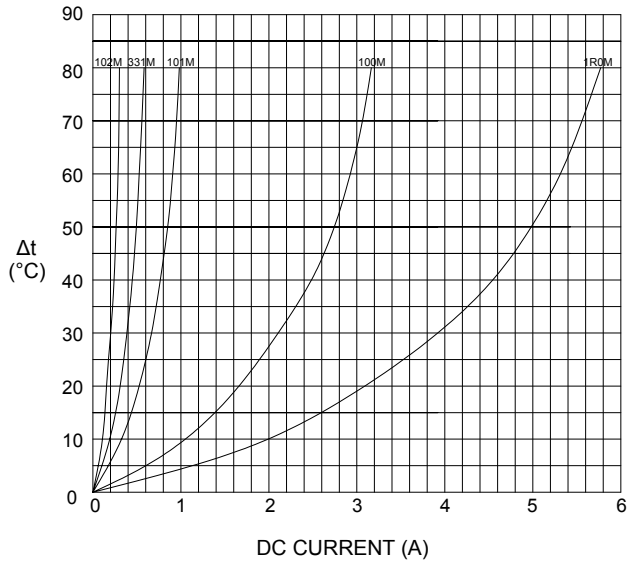
Pb

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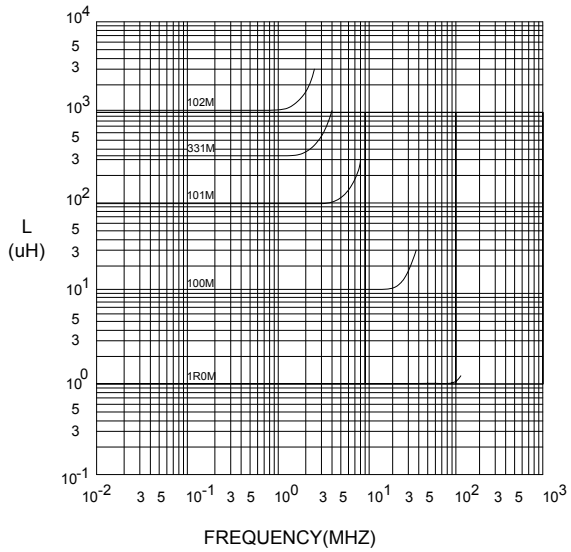
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7. CHARACTERISTICS CURVES :

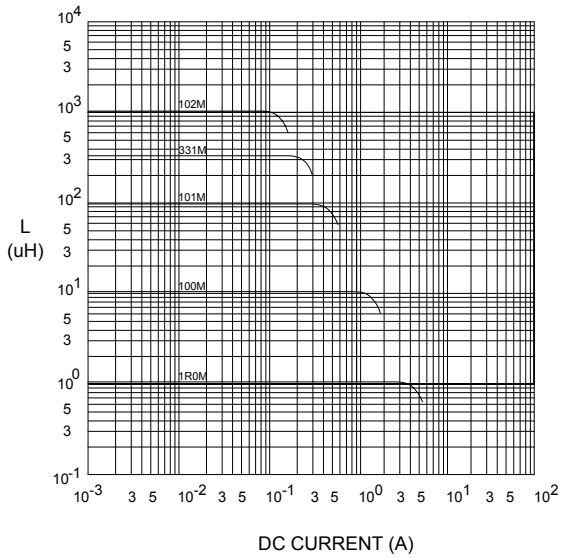
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



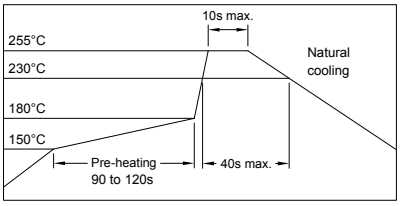
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



RoHS Compliant

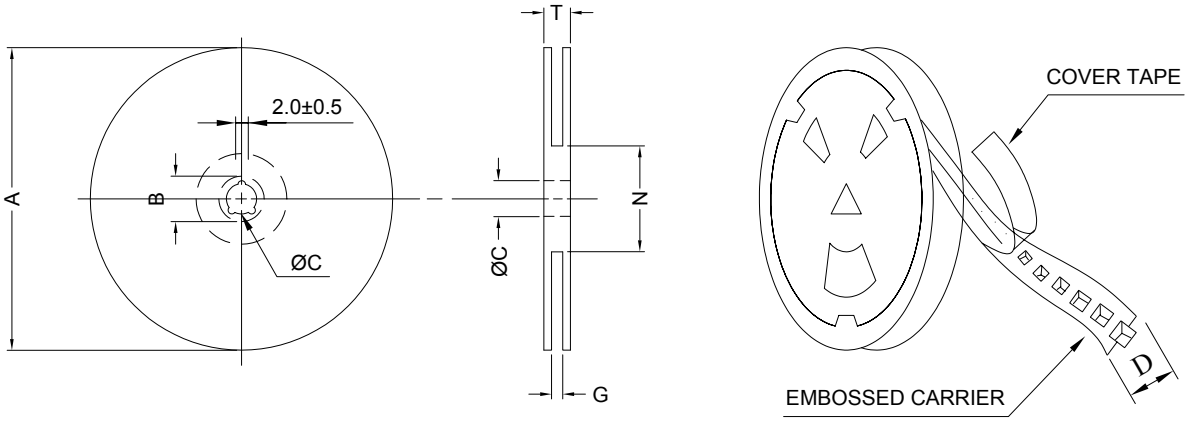
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RECOMMENDED SOLDERING CONDITIONS
REFLOW SOLDERINGS

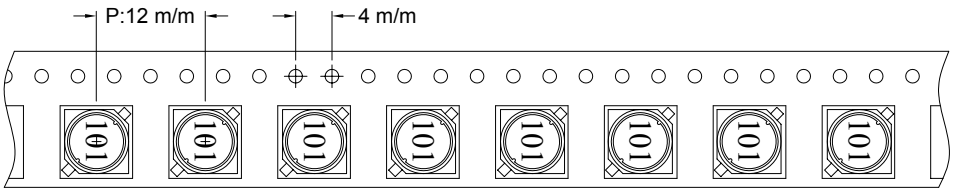


8. PACKAGING INFORMATION :

(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)
SSB0604	1000	950	13-16	6000	9.2	40 x 40 x 24

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9. RELIABILTY 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. (15 MINUTES) → -25±2°C (30 MINUTES) ROOM TEMP. (15 MINUTES) → 85±2°C (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

	Coating Type		ANSI	
Mtl Dsg	BC	TC	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	RTI Mech w/o Imp	H W I	H A I	H V T R	D 4 9 5	C T I
Liquid crystal plyester (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.

RoHS Compliant

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