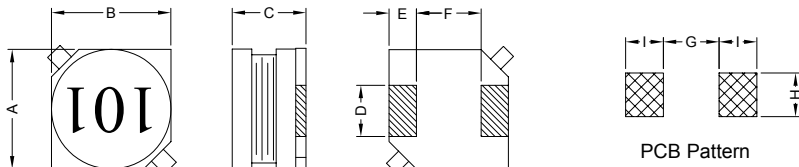


1. PART NO. EXPRESSION :

$\overline{\text{P S B 0 7 0 3 1 R 0 M Z F}}$
 (a) (b) (c) (d)(e)(f)

- (a) Series code
- (b) Dimension code
- (c) Inductance code : 1R0 = 1.0uH
- (d) Tolerance code : K = $\pm 10\%$, M = $\pm 20\%$
- (e) X, Y, Z : Standard part
- (f) F : Lead Free

2. CONFIGURATION & DIMENSIONS :



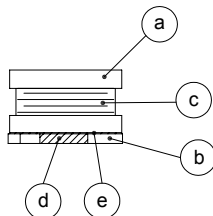
Unit:m/m

A	B	C	D	E	F	G	H	I
7.0 \pm 0.3	7.0 \pm 0.3	3.0 \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) Base : LCP
- (c) Wire : Enamelled Copper Wire
- (d) Terminal : Tinned Copper Plate
- (e) Adhesive : Epoxy

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)	Test Frequency (Hz)	RDC ($m\Omega$) Max.	IDC (A) Max.
PSB07031R0MZF	1.0 \pm 20%	1V / 100K	20	3.20
PSB07031R5MZF	1.5 \pm 20%	1V / 100K	25	2.80
PSB07032R2MZF	2.2 \pm 20%	1V / 100K	35	2.50
PSB07033R3MZF	3.3 \pm 20%	1V / 100K	40	2.20
PSB07034R7MZF	4.7 \pm 20%	1V / 100K	45	2.00
PSB07036R8MZF	6.8 \pm 20%	1V / 100K	60	1.60
PSB0703100MZF	10.0 \pm 20%	1V / 100K	80	1.40
PSB0703120MZF	12.0 \pm 20%	1V / 100K	85	1.30
PSB0703150LZF	15.0 \pm 15%	1V / 100K	110	1.10
PSB0703180LZF	18.0 \pm 15%	1V / 100K	130	1.05
PSB0703220LZF	22.0 \pm 15%	1V / 100K	150	1.00
PSB0703270LZF	27.0 \pm 15%	1V / 100K	190	0.95
PSB0703330LZF	33.0 \pm 15%	1V / 100K	210	0.85
PSB0703390LZF	39.0 \pm 15%	1V / 100K	270	0.75
PSB0703470LZF	47.0 \pm 15%	1V / 100K	310	0.70
PSB0703560KZF	56.0 \pm 10%	1V / 100K	390	0.65
PSB0703680KZF	68.0 \pm 10%	1V / 100K	430	0.60
PSB0703820KZF	82.0 \pm 10%	1V / 100K	490	0.50
PSB0703101KZF	100.0 \pm 10%	1V / 100K	650	0.45
PSB0703121KZF	120.0 \pm 10%	1V / 100K	700	0.40
PSB0703151KZF	150.0 \pm 10%	1V / 100K	850	0.35
PSB0703181KZF	180.0 \pm 10%	1V / 100K	1100	0.33
PSB0703221KZF	220.0 \pm 10%	1V / 100K	1250	0.30
PSB0703271KZF	270.0 \pm 10%	1V / 100K	1450	0.28
PSB0703331KZF	330.0 \pm 10%	1V / 100K	2000	0.25
PSB0703391KZF	390.0 \pm 10%	1V / 100K	2250	0.23
PSB0703471KZF	470.0 \pm 10%	1V / 100K	2600	0.22
PSB0703561KZF	560.0 \pm 10%	1V / 100K	3700	0.20
PSB0703681KZF	680.0 \pm 10%	1V / 100K	4300	0.18
PSB0703821KZF	820.0 \pm 10%	1V / 100K	4900	0.16
PSB0703102KZF	1000.0 \pm 10%	1V / 100K	5600	0.15



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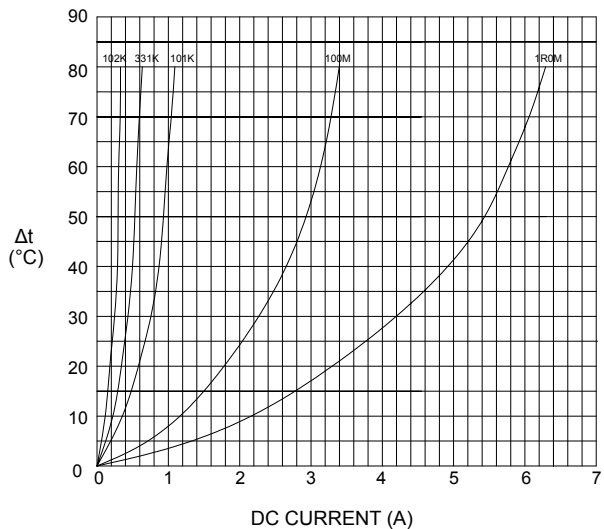


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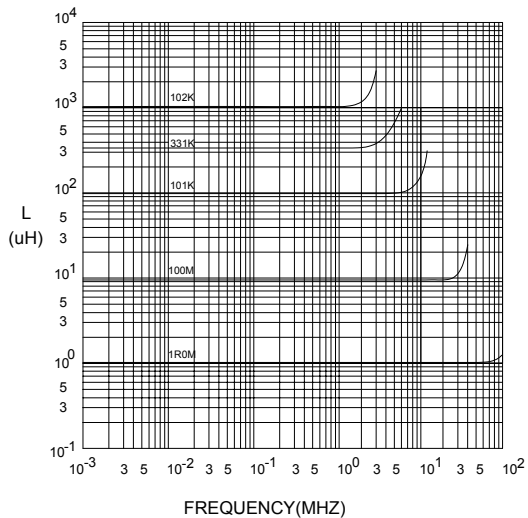
PG. 2

7. CHARACTERISTICS CURVES :

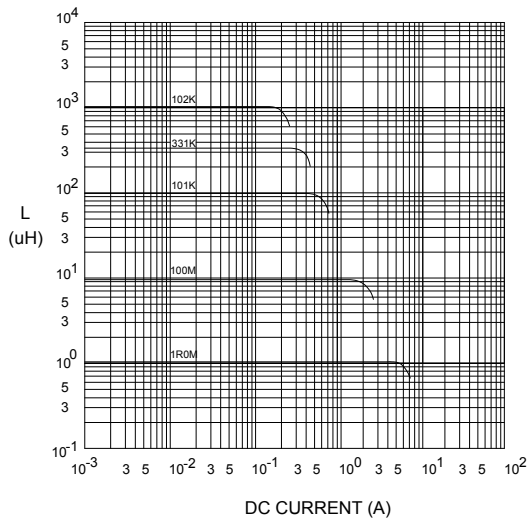
@ TEMP. RISE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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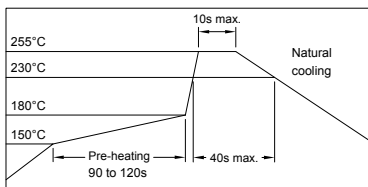
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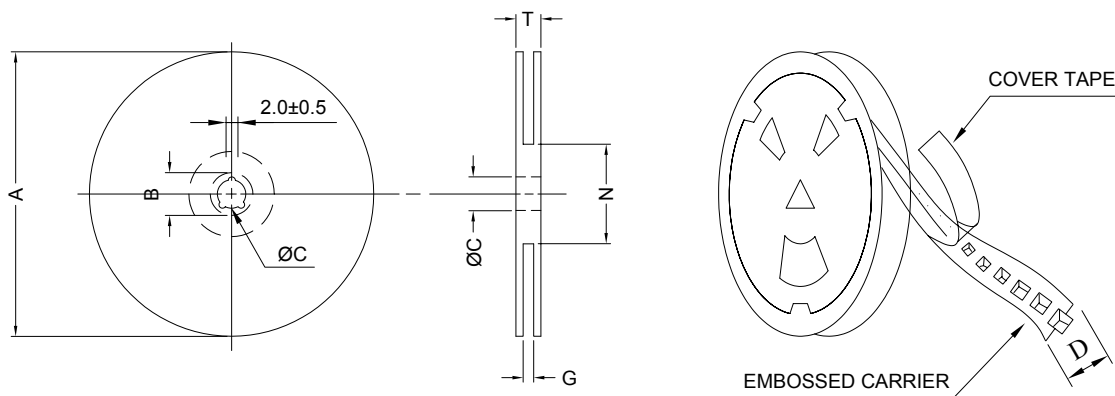
SUPERWORLD ELECTRONICS (S) PTE LTD

RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

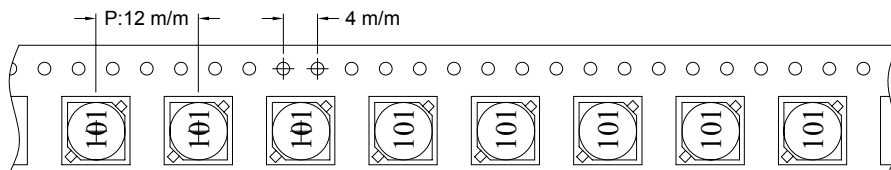


8. PACKAGING INFORMATION :

(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)
PSB0703	1000	600	13-16	6000	7.1	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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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	Coating Type	TC	ANSI Type	TI
UEW/U	BC 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		w/o Imp	H W I	H A I	H V T 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	—	—	—	—
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	—	—	—	—
		1.5	94V-0	220	200	240	2	4	—	—	—	—
E4010	NC , BK	3.0	94V-0	220	200	240	1	4	0	5	4	—
		0.30	94V-0	130	130	130	—	—	—	—	—	—
		0.75	94V-0	220	180	220	3	4	—	—	—	—
E400(Y)L , E4008L	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	—	—	—	—	—	—
E4810	NC , BK	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	—
		0.30	94V-0	130	130	130	—	—	—	—	—	—
E4810	NC , BK	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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