

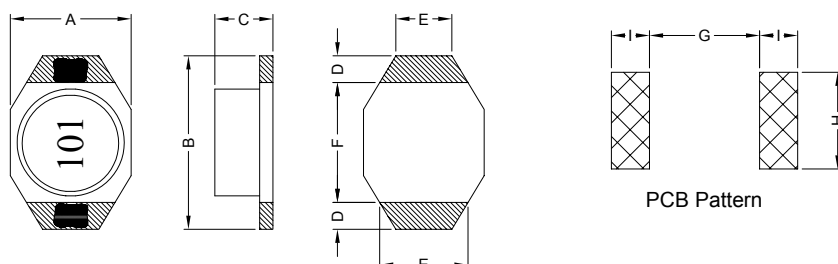
1. PART NO. EXPRESSION :

S D B 1 6 0 8 1 R 0 M Z F

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

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

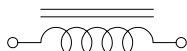
2. CONFIGURATION & DIMENSIONS :



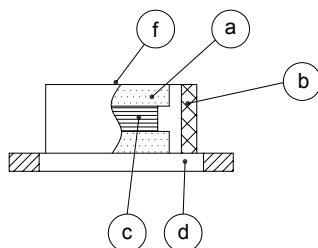
Unit:m/m

A	B	C	D	E	E'	F	G	H	I
4.45 Max.	6.60 Max.	2.92 Max.	1.02 Ref.	3.05 Ref.	1.27 Ref.	4.32 Ref.	4.06 Ref.	3.56 Ref.	1.40 Ref.

3. SCHEMATIC :



4. MATERIALS :



- (a) Core : DR Ferrite Core
- (b) Core : RI Ferrite Core
- (c) Wire : Enamelled Copper Wire
- (d) Base : Ceramic Base
- (e) Adhesive : Epoxy
- (f) Ink : Bon Margue

5. GENERAL SPECIFICATION :

- a) Temp. rise : 30°C Typ. at Irms
- b) $\Delta L/L0A = 30\%$ Typ. at Isat
- c) Storage temp. : -40°C to +125°C
- d) Operating temp. : -40°C to +95°C
- e) Resistance to solder heat : 260°C.10 secs



RoHS Compliant

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

05.05.2008



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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Frequency (Hz)	Q Min.	Test Frequency (Hz)	SRF (MHz) Typ.	RDC (Ω) Max.	I _{rms} (A)
SDB16081R0MZF	1.0 $\pm$ 20%	100K	30	200K	250	0.040	3.0
SDB16081R5MZF	1.5 $\pm$ 20%	100K	30	200K	125	0.045	2.8
SDB16082R2MZF	2.2 $\pm$ 20%	100K	40	200K	120	0.050	1.8
SDB16083R3MZF	3.3 $\pm$ 20%	100K	40	200K	120	0.055	1.6
SDB16084R7MZF	4.7 $\pm$ 20%	100K	40	200K	105	0.060	1.4
SDB16086R8MZF	6.8 $\pm$ 20%	100K	40	200K	50	0.065	1.2
SDB1608100MZF	10.0 $\pm$ 20%	100K	40	200K	38	0.075	1.0
SDB1608150MZF	15.0 $\pm$ 20%	100K	40	100K	33	0.090	0.80
SDB1608220MZF	22.0 $\pm$ 20%	100K	40	100K	25	0.110	0.70
SDB1608330MZF	33.0 $\pm$ 20%	100K	40	100K	20	0.190	0.60
SDB1608470MZF	47.0 $\pm$ 20%	100K	40	100K	20	0.230	0.50
SDB1608680MZF	68.0 $\pm$ 20%	100K	40	100K	15	0.290	0.40
SDB1608101KZF	100.0 $\pm$ 10%	100K	40	100K	10	0.480	0.30
SDB1608151KZF	150.0 $\pm$ 10%	100K	40	100K	9	0.590	0.26
SDB1608221KZF	220.0 $\pm$ 10%	100K	40	100K	6	0.770	0.22
SDB1608331KZF	330.0 $\pm$ 10%	100K	40	100K	5	1.400	0.20
SDB1608471KZF	470.0 $\pm$ 10%	100K	40	100K	4	1.800	0.19
SDB1608681KZF	680.0 $\pm$ 10%	100K	40	100K	3	2.200	0.18
SDB1608102KZF	1000.0 $\pm$ 10%	100K	40	100K	2	3.400	0.15
SDB1608152KZF	1500.0 $\pm$ 10%	100K	50	100K	2	4.200	0.12
SDB1608222KZF	2200.0 $\pm$ 10%	100K	50	100K	2	8.500	0.10
SDB1608332KZF	3300.0 $\pm$ 10%	100K	50	100K	1	11.000	0.08
SDB1608472KZF	4700.0 $\pm$ 10%	100K	50	100K	1	13.900	0.06
SDB1608682KZF	6800.0 $\pm$ 10%	100K	50	100K	1	25.000	0.04
SDB1608103KZF	10000.0 $\pm$ 10%	100K	50	100K	0.8	32.800	0.02



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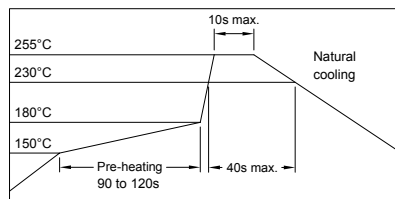
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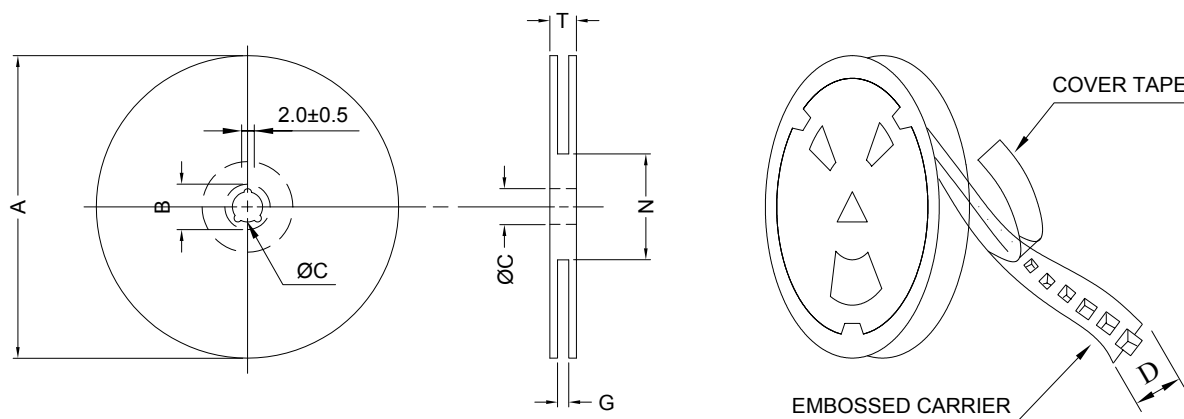
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RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS

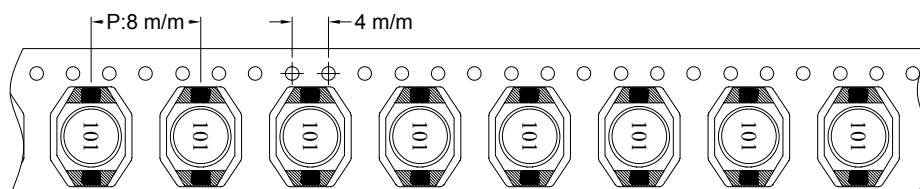


7. PACKAGING INFORMATION :

(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)
SDB1608	2000	900	13-16	18000	8.9	40 x 40 x 24



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8. 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

9. 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		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



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