

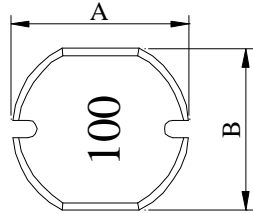
SPECIFICATION FOR APPROVAL

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	ESR0805□□□□L□-□□□
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I . CONFIGURATION & DIMENSIONS :



A : 7.8±0.3 m/m

B : 7.0±0.3 m/m

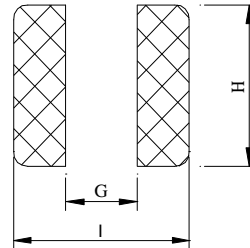
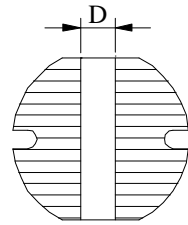
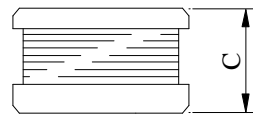
C : 5.0±0.5 m/m

D : 2.1 ref. m/m

G : 2.0 ref. m/m

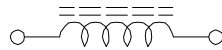
H : 7.5 ref. m/m

I : 8.0 ref. m/m



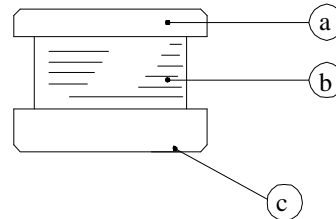
(PCB Pattern)

II . SCHEMATIC DIAGRAM :



III . MATERIALS :

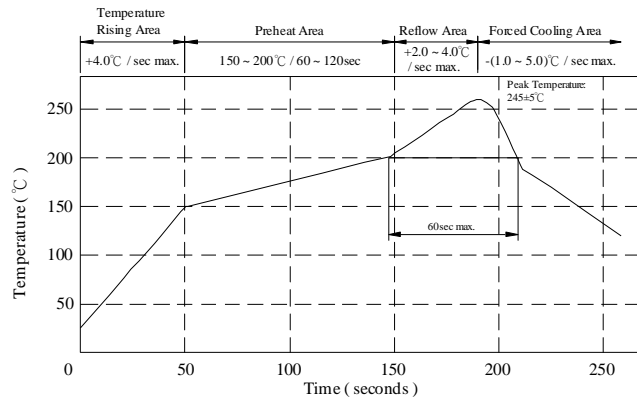
- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire (Class H)
- c . Terminal : Ag/Ni/Sn
- d . Remark : Products comply with RoHS' requirements



Peak Temp : 245±5°C
Max time above 200°C : 60sec max.

IV . GENERAL SPECIFICATION :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+105°C
- c . Resistance to solder heat : 245±5°C.10 secs.



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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	RDC ($m\Omega$)		Rated Current (A)	SRF (MHz) typ.
		typ.	max.		
ESR0805100ML□-□□□	10 \pm 20%	50	70	2.45	27.5
ESR0805120ML□-□□□	12 \pm 20%	56	80	2.20	25.8
ESR0805150ML□-□□□	15 \pm 20%	60	90	2.05	22.5
ESR0805180ML□-□□□	18 \pm 20%	74	100	1.90	17.6
ESR0805220ML□-□□□	22 \pm 20%	82	110	1.80	16.5
ESR0805270ML□-□□□	27 \pm 20%	94	120	1.70	14.3
ESR0805330ML□-□□□	33 \pm 20%	117	130	1.62	13.2
ESR0805390ML□-□□□	39 \pm 20%	137	160	1.50	12.6
ESR0805470KL□-□□□	47 \pm 10%	165	180	1.40	12.1
ESR0805560KL□-□□□	56 \pm 10%	200	240	1.20	11.5
ESR0805680KL□-□□□	68 \pm 10%	230	280	1.10	10.5
ESR0805820KL□-□□□	82 \pm 10%	300	370	1.00	9.4
ESR0805101KL□-□□□	100 \pm 10%	320	430	0.90	8.8
ESR0805121KL□-□□□	120 \pm 10%	360	470	0.80	7.7
ESR0805151KL□-□□□	150 \pm 10%	515	640	0.72	7.2
ESR0805181KL□-□□□	180 \pm 10%	576	710	0.65	6.2
ESR0805221KL□-□□□	220 \pm 10%	750	960	0.60	6.0
ESR0805271KL□-□□□	270 \pm 10%	870	1110	0.55	5.0
ESR0805331KL□-□□□	330 \pm 10%	1020	1200	0.50	4.9
ESR0805391KL□-□□□	390 \pm 10%	1290	1500	0.45	4.4
ESR0805471KL□-□□□	470 \pm 10%	1470	1700	0.40	3.6

- 1). □ : Packaging information... [A]: Bulk [B]: Taping Reel
- 2)."- □□□":Reference code
- 3). Inductance test condition :10uH~82uH at 1MHz/1V
100uH~470uH at 1KHz/1V
- 4). Rated current: The DC current at which the inductance decreases to 90% of its initial value or when $\Delta t=40^{\circ}C$, whichever is lower($T_a=20^{\circ}C$)

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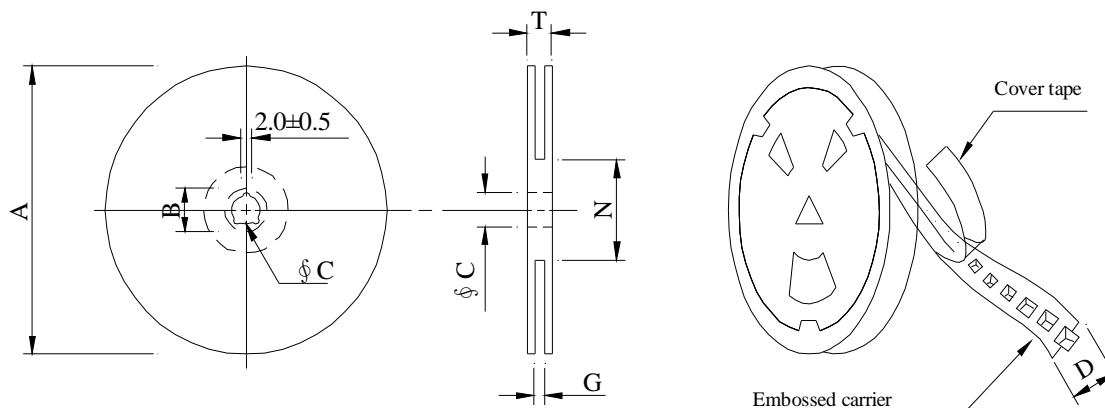
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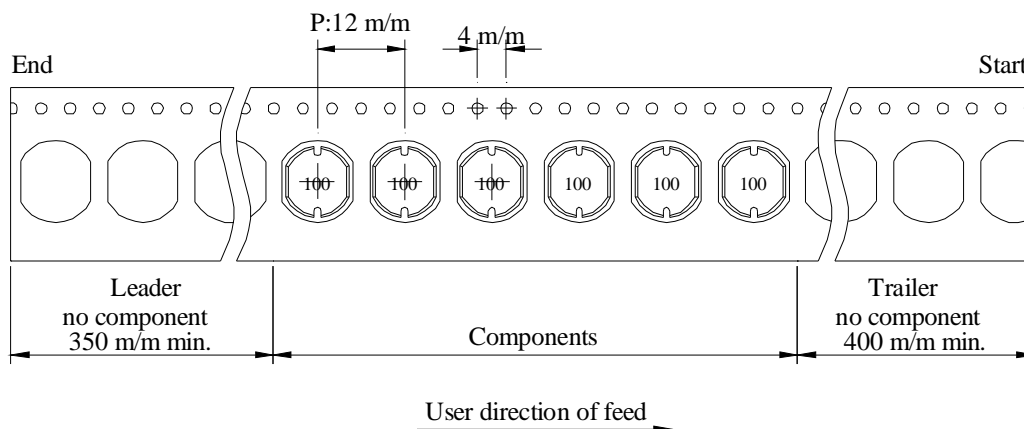
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VI . INDUCTANCE VS. DC CURRENT CURVE :

(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±0.5	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)
ESR0805	1000	1300	13 - 16	6,000	10.5	40 x 40 x 24

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VIII . DWGING NUMBER EXPRESSION :

Test item	Specification	Test condition						
Solderability	More than 95% of the terminal electrode shall be covered With fresh solder.	Preheat : 155°C / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 5±0.5 seconds						
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">-40 °C 30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">+105 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-40 °C 30 minutes	Room temp. 15 minutes	→	+105 °C 30 minutes
Room temp. 15 minutes		→	-40 °C 30 minutes					
Room temp. 15 minutes		→	+105 °C 30 minutes					
Humidity test		Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours						
High temp. Resistance test	Temperature : 105±5°C Applied current : Per spec. Time : 96 hours							

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IX . RELIABILITY TEST :

OBMW2

October 06, 2005

Magnet Wire-Component

ELEKTRISOLA (MALAYSLA) SDN BHD

E143312

JALAN DAMAI SATU JANDA BAIK 28750 BENTONG, PAHANG
DARUL MAKMUR MALAYSIA

Mtl Dsg	Mark Dsg	Coating Type		ANSI Typ	Temp Class
		BC	OC		
Estersol 180	E180	Polyesterimide (solderable)	—	MW-77	180
Amldester 200	A200	Polyesterimide	—	MW-74	200
Polysol-N 155	PN155	Polyurethane	Nylon	MW-80, MW-28	155, 130
Polysol 155	P155, G155	Polyurethane	—	MW-79, MW-75	155, 130
Polysol 155g	Pg155	Polyurethane	—	MW-75	130
Polysol 155p	Pp155,Gp155	Polyurethane	—	MW-79	155
Polysol 160	P160	Polyurethane	—	MW-79	155
Polysol 180	P180,G180	Polyurethane	—	MW-82	180
Polysol 170	P170 or G170	Polyurethane	—	MW-79	155
Polysol-N 180	PN180	Polyurethane	Nylon	MW-83	180
Polysol P155p	P155p	Polyurethane	—	MW-79	155

Marking : Company name, material designation or marked designation and factory identification on package ok reel

See General Information preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.