

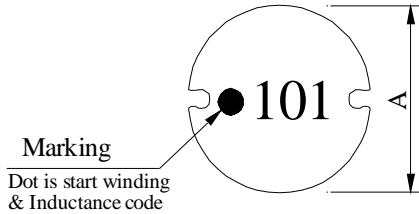
SPECIFICATION FOR APPROVAL

REF : 20090728-A

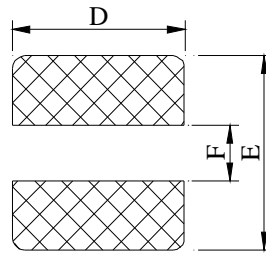
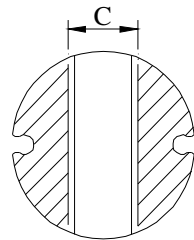
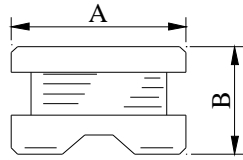
PAGE: 1

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

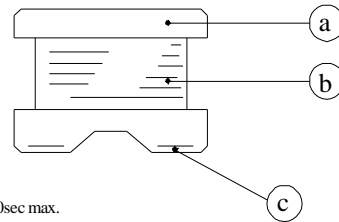
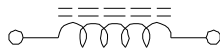


- A : 13.0±0.7 m/m
- B : 7.0±0.3 m/m
- C : 5.0 ref. m/m
- D : 14.0 ref. m/m
- E : 14.0 ref. m/m
- F : 4.5 ref. m/m



(PCB Pattern)

II . SCHEMATIC DIAGRAM :



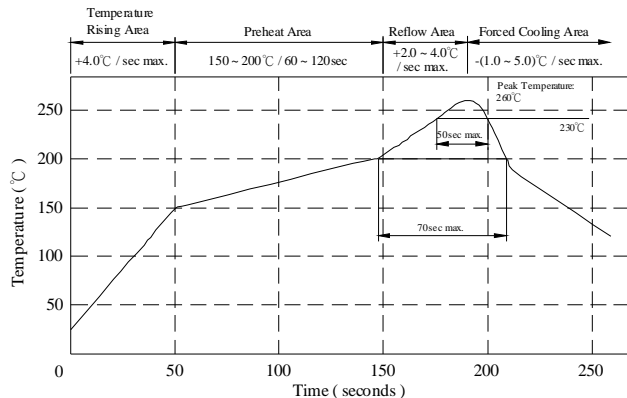
III . MATERIALS :

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

Peak Temp : 260°C max.
 Max time above 230°C : 50sec max.
 Max time above 200°C : 70sec max.

IV . GENERAL SPECIFICATION :

- a . Temp. rise : 40°C max.
- b . Rated current : Base on temp. rise & $\Delta L / LOA=10\%$ typ.
- c . Storage temp. : -40°C ----+125°C
- d . Operating temp. : -40°C ----+105°C
- e . Resistance to solder heat : 260°C.10 secs.



AR-001A

SPECIFICATION FOR APPROVAL

REF : 20090728-A

PAGE: 2

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□-□□□
		ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISITCS :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (m Ω) max.	Irms (A)	Isat (A)
			L	Q				
SR13071R5ML□-□□□	1.5 \pm 20%	20	100K	7.960M	65.0	5.0	9.50	20.00
SR13072R2ML□-□□□	2.2 \pm 20%	22	100K	7.960M	50.0	6.0	9.00	18.00
SR13072R7ML□-□□□	2.7 \pm 20%	24	100K	7.960M	40.0	8.0	8.20	16.00
SR13073R3ML□-□□□	3.3 \pm 20%	26	100K	7.960M	38.0	8.7	7.50	15.00
SR13074R7ML□-□□□	4.7 \pm 20%	25	100K	7.960M	36.0	10.0	7.00	13.00
SR13075R6ML□-□□□	5.6 \pm 20%	24	100K	7.960M	28.0	15.0	6.50	11.00
SR13076R8ML□-□□□	6.8 \pm 20%	24	100K	7.960M	26.0	17.0	6.00	10.50
SR13078R2ML□-□□□	8.2 \pm 20%	24	100K	7.960M	24.0	19.0	5.80	9.80
SR1307100ML□-□□□	10.0 \pm 20%	22	100K	2.520M	22.0	21.0	5.60	9.20
SR1307120ML□-□□□	12.0 \pm 20%	25	100K	2.520M	20.0	30.0	4.80	8.00
SR1307150ML□-□□□	15.0 \pm 20%	28	100K	2.520M	17.0	34.0	4.50	7.50
SR1307180ML□-□□□	18.0 \pm 20%	28	100K	2.520M	16.0	36.0	4.20	7.00
SR1307220ML□-□□□	22.0 \pm 20%	40	100K	2.520M	15.0	47.0	3.60	6.50
SR1307270ML□-□□□	27.0 \pm 20%	35	100K	2.520M	11.0	60.0	3.30	5.50
SR1307330KL□-□□□	33.0 \pm 10%	35	100K	2.520M	10.0	65.0	3.10	5.00
SR1307390KL□-□□□	39.0 \pm 10%	28	100K	2.520M	9.0	75.0	2.90	4.60
SR1307470KL□-□□□	47.0 \pm 10%	24	100K	2.520M	7.5	82.0	2.70	4.20
SR1307560KL□-□□□	56.0 \pm 10%	22	100K	2.520M	7.2	100.0	2.50	3.80
SR1307680KL□-□□□	68.0 \pm 10%	24	100K	2.520M	7.0	120.0	2.30	3.50
SR1307820KL□-□□□	82.0 \pm 10%	18	100K	2.520M	6.0	140.0	2.10	3.20
SR1307101KL□-□□□	100.0 \pm 10%	25	100K	0.796M	5.8	180.0	1.90	3.00
SR1307121KL□-□□□	120.0 \pm 10%	20	100K	0.796M	5.5	210.0	1.80	2.80
SR1307151KL□-□□□	150.0 \pm 10%	20	100K	0.796M	4.5	250.0	1.60	2.60
SR1307181KL□-□□□	180.0 \pm 10%	18	100K	0.796M	4.0	280.0	1.50	2.30
SR1307221KL□-□□□	220.0 \pm 10%	15	100K	0.796M	3.8	360.0	1.30	2.10
SR1307271KL□-□□□	270.0 \pm 10%	15	100K	0.796M	3.5	410.0	1.20	1.80
SR1307331KL□-□□□	330.0 \pm 10%	15	100K	0.796M	3.2	520.0	1.10	1.60
SR1307391KL□-□□□	390.0 \pm 10%	12	100K	0.796M	2.5	600.0	1.00	1.50
SR1307471KL□-□□□	470.0 \pm 10%	12	100K	0.796M	2.2	720.0	0.90	1.40
SR1307561KL□-□□□	560.0 \pm 10%	10	100K	0.796M	2.0	880.0	0.85	1.30
SR1307681KL□-□□□	680.0 \pm 10%	10	100K	0.796M	1.6	1000.0	0.80	1.20
SR1307821KL□-□□□	820.0 \pm 10%	10	100K	0.796M	1.5	1300.0	0.75	1.10
SR1307102KL□-□□□	1000.0 \pm 10%	10	100K	0.252M	1.4	1600.0	0.65	1.00

- 1). □ : Packaging information... [A] : Bulk [B] : Taping Reel
- 2). "- □□□ " : Reference code
- 3). Inductance Test Freq. at 100KHz / 0.1V.
- 4). Irms Base on $\Delta T = 40^{\circ}C$ max.
- 5). Isat Base on $\Delta L/L0A = 10\%$ typ.

AR-001A



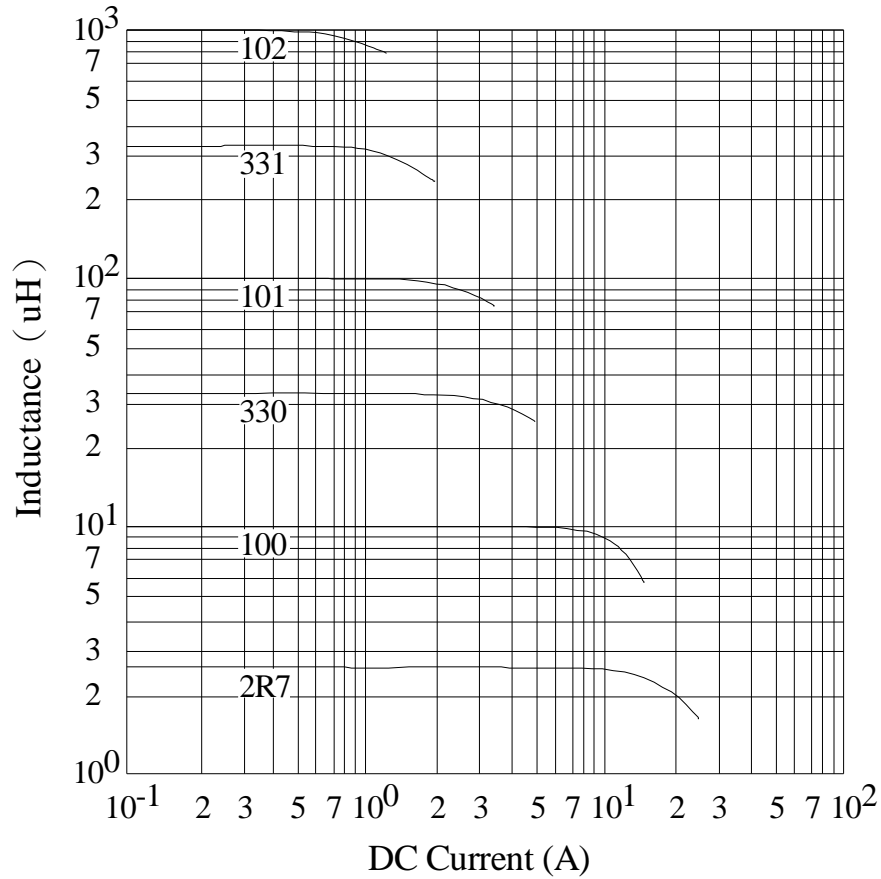
SPECIFICATION FOR APPROVAL

REF : 20090728-A

PAGE: 3

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□-□□□
		ABC'S ITEM NO.	

VI . INDUCTANCE VS. DC CURRENT CURVE :



SPECIFICATION FOR APPROVAL

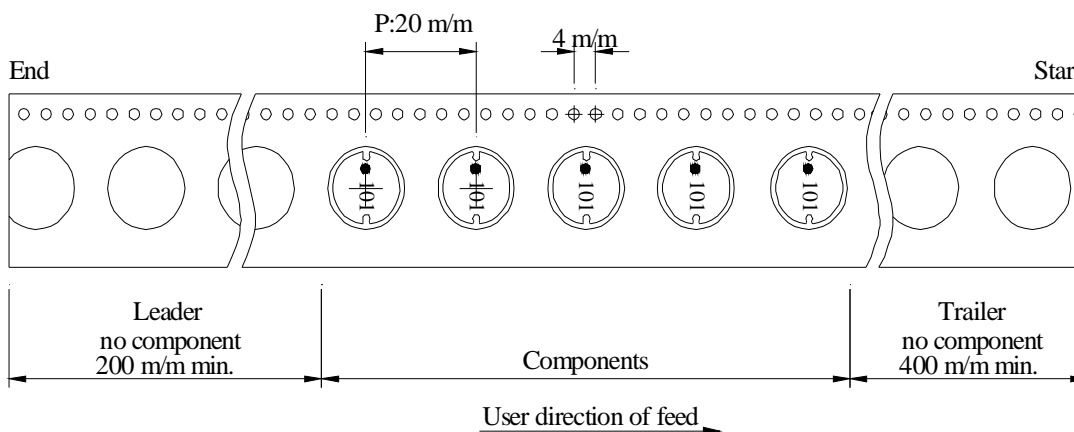
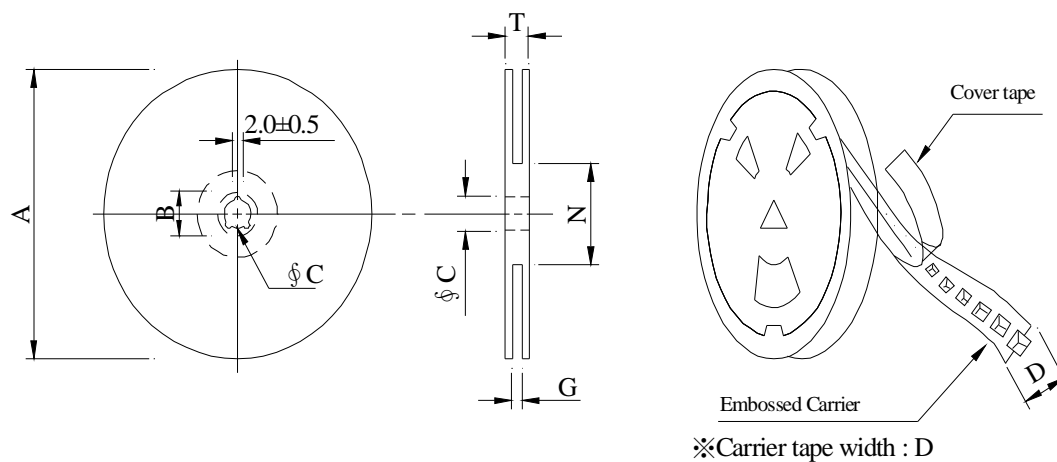
REF : 20090728-A

PAGE: 4

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□-□□□
		ABC'S ITEM NO.	

VII . PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	24	26 ⁺⁰	50 ⁻⁰	30.4

(3) QTY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	QTY (pcs)	G.W. (gw)	Style	QTY (pcs)	G.W. (Kg)	Size (cm)
SR1307	400	1,800	13 - 24	1,600	9.5	40 x 40 x 24

AR-001A

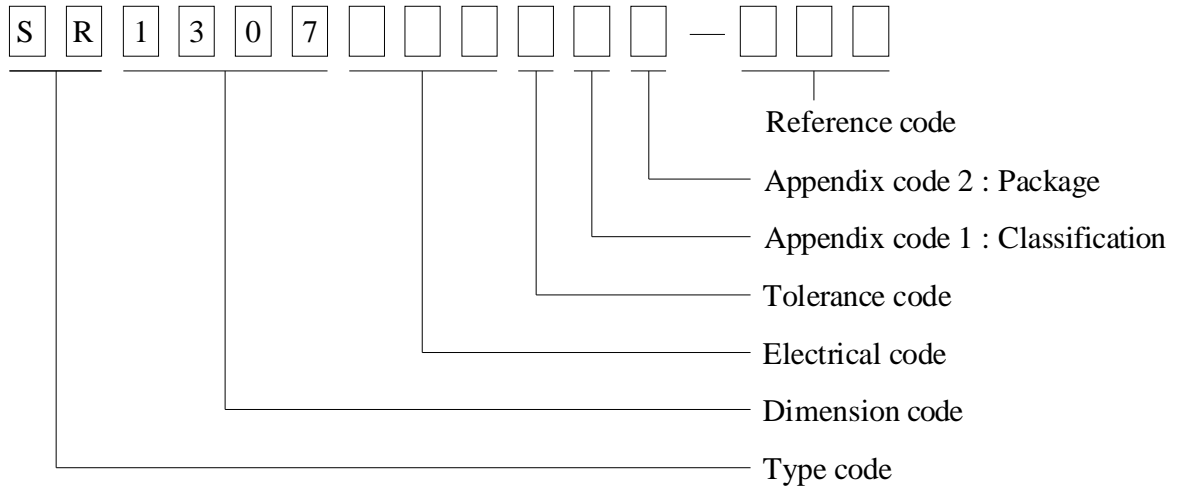
SPECIFICATION FOR APPROVAL

REF : 20090728-A

PAGE: 5

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□-□□□
		ABC'S ITEM NO.	

VIII . DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

- L : Lead Free Standard products comply with RoHS' requirements
- 1 ~ 9 : Lead Free Special products comply with RoHS' requirements

Appendix code 2 : Package Information

Code	Inner package	Inner package Q'TY	Remark
A	T.B.D.	T.B.D.	
B	T / R (Reel package)	400 pcs	

SPECIFICATION FOR APPROVAL

REF : 20090728-A

PAGE: 6

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□-□□□
		ABC'S ITEM NO.	

IX . RELIABILITY TEST :

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; vertical-align: middle;">→</td> <td style="text-align: center; vertical-align: middle;">-40 °C 30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center; vertical-align: middle;">→</td> <td style="text-align: center; vertical-align: middle;">+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						

AR-001A



SPECIFICATION FOR APPROVAL

REF : 20090728-A

PAGE: 8

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR1307□□□□L□-□□□
		ABC'S ITEM NO.	

X . UL CARD :

OBMW2 October 06, 2005
 Magnet Wire-Component

ELEKTRISOLA (MALAYSLA) SDN BHD E1433 12
 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.