

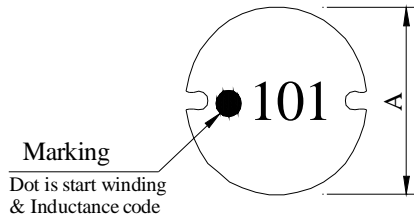
# SPECIFICATION FOR APPROVAL

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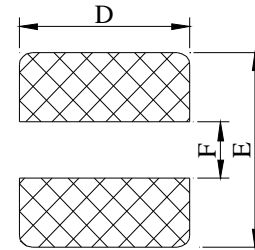
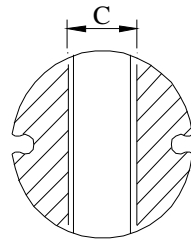
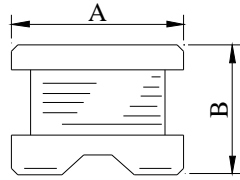
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SR0805□□□□L□-□□□
		ABC'S ITEM NO.	

## I . CONFIGURATION & DIMENSIONS :

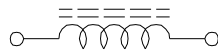


- A : 7.5±0.3 m/m
- B : 5.0±0.3 m/m
- C : 2.6 ref. m/m
- D : 8.0 ref. m/m
- E : 7.8 ref. m/m
- F : 2.4 ref. m/m



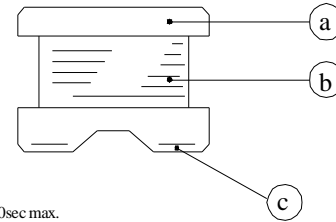
( PCB Pattern )

## II . SCHEMATIC DIAGRAM :



## III . MATERIALS :

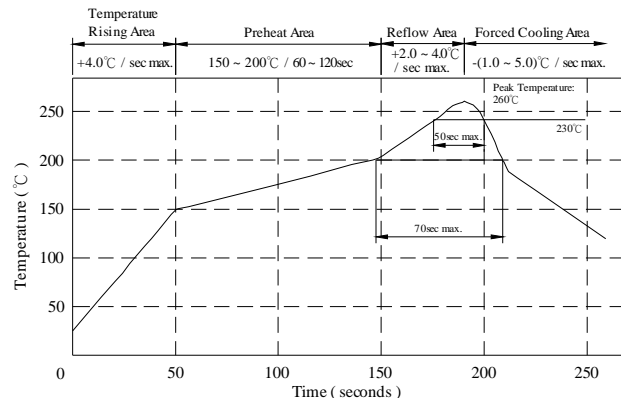
- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire ( class F & H )
- c . Terminal : Ag/Ni/Sn
- d . Remark : Products comply with RoHS' requirements



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 & ΔL / LOA=10% max.
- c . Storage temp. : -40°C ----+125°C
- d . Operating temp. : -40°C ----+105°C
- e . Resistance to solder heat : 260°C.10 secs.



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## V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance ( μH )	Q ref.	Test Freq. ( Hz )		SRF ( MHz ) nom.	RDC ( Ω ) max.	IDC ( A ) max.
			L	Q			
SR08051R5ML□-□□□	1.5±20%	32	1K	7.960M	120.0	0.015	6.00
SR08052R5ML□-□□□	2.5±20%	32	1K	7.960M	70.0	0.020	5.00
SR08053R3ML□-□□□	3.3±20%	32	1K	7.960M	55.0	0.022	4.60
SR08053R9ML□-□□□	3.9±20%	32	1K	7.960M	45.0	0.024	4.40
SR08054R7ML□-□□□	4.7±20%	31	1K	7.960M	38.0	0.033	3.70
SR08055R6ML□-□□□	5.6±20%	31	1K	7.960M	34.0	0.035	3.50
SR08056R8ML□-□□□	6.8±20%	30	1K	7.960M	33.0	0.040	3.20
SR08058R2ML□-□□□	8.2±20%	29	1K	7.960M	30.0	0.050	2.80
SR0805100ML□-□□□	10.0±20%	25	1K	2.520M	22.0	0.070	2.30
SR0805120ML□-□□□	12.0±20%	25	1K	2.520M	20.0	0.080	2.00
SR0805150ML□-□□□	15.0±20%	25	1K	2.520M	16.0	0.090	1.80
SR0805180ML□-□□□	18.0±20%	20	1K	2.520M	15.0	0.100	1.60
SR0805220ML□-□□□	22.0±20%	20	1K	2.520M	13.0	0.110	1.50
SR0805270ML□-□□□	27.0±20%	20	1K	2.520M	12.0	0.120	1.30
SR0805330KL□-□□□	33.0±10%	15	1K	2.520M	10.0	0.140	1.20
SR0805390KL□-□□□	39.0±10%	15	1K	2.520M	9.5	0.160	1.10
SR0805470KL□-□□□	47.0±10%	15	1K	2.520M	9.0	0.200	1.00
SR0805560KL□-□□□	56.0±10%	15	1K	2.520M	8.5	0.240	0.94
SR0805680KL□-□□□	68.0±10%	15	1K	2.520M	8.0	0.300	0.85
SR0805820KL□-□□□	82.0±10%	12	1K	2.520M	7.0	0.370	0.78
SR0805101KL□-□□□	100.0±10%	12	1K	0.796M	6.5	0.450	0.72
SR0805121KL□-□□□	120.0±10%	12	1K	0.796M	5.6	0.480	0.66
SR0805151KL□-□□□	150.0±10%	12	1K	0.796M	5.5	0.680	0.58
SR0805181KL□-□□□	180.0±10%	12	1K	0.796M	5.0	0.770	0.51
SR0805221KL□-□□□	220.0±10%	12	1K	0.796M	4.8	0.960	0.49
SR0805271KL□-□□□	270.0±10%	12	1K	0.796M	4.5	1.110	0.42
SR0805331KL□-□□□	330.0±10%	12	1K	0.796M	4.3	1.260	0.40
SR0805391KL□-□□□	390.0±10%	12	1K	0.796M	4.0	1.770	0.36
SR0805471KL□-□□□	470.0±10%	12	1K	0.796M	3.8	1.960	0.34
SR0805561KL□-□□□	560.0±10%	30	1K	0.796M	3.7	2.500	0.30
SR0805681KL□-□□□	680.0±10%	29	1K	0.796M	3.5	2.800	0.28
SR0805821KL□-□□□	820.0±10%	28	1K	0.796M	3.2	4.000	0.23
SR0805102KL□-□□□	1000.0±10%	27	1K	0.252M	3.0	4.500	0.21
SR0805122KL□-□□□	1200.0±10%	28	1K	0.252M	2.6	6.800	0.17
SR0805152KL□-□□□	1500.0±10%	27	1K	0.252M	2.4	8.000	0.15
SR0805182KL□-□□□	1800.0±10%	30	1K	0.252M	1.6	9.200	0.14
SR0805222KL□-□□□	2200.0±10%	29	1K	0.252M	1.5	10.000	0.13
SR0805272KL□-□□□	2700.0±10%	31	1K	0.252M	1.4	11.800	0.12
SR0805332KL□-□□□	3300.0±10%	28	1K	0.252M	1.2	16.500	0.10
SR0805392KL□-□□□	3900.0±10%	28	1K	0.252M	1.1	18.000	0.09
SR0805472KL□-□□□	4700.0±10%	30	1K	0.252M	1.0	21.000	0.08

1). □ : Packaging information... [A]: Bulk [B]: Taping Reel

2). "- □□□ " : Reference code

3). IDC base on temp. rise 40°C max. & ΔL/L0A=10% max.

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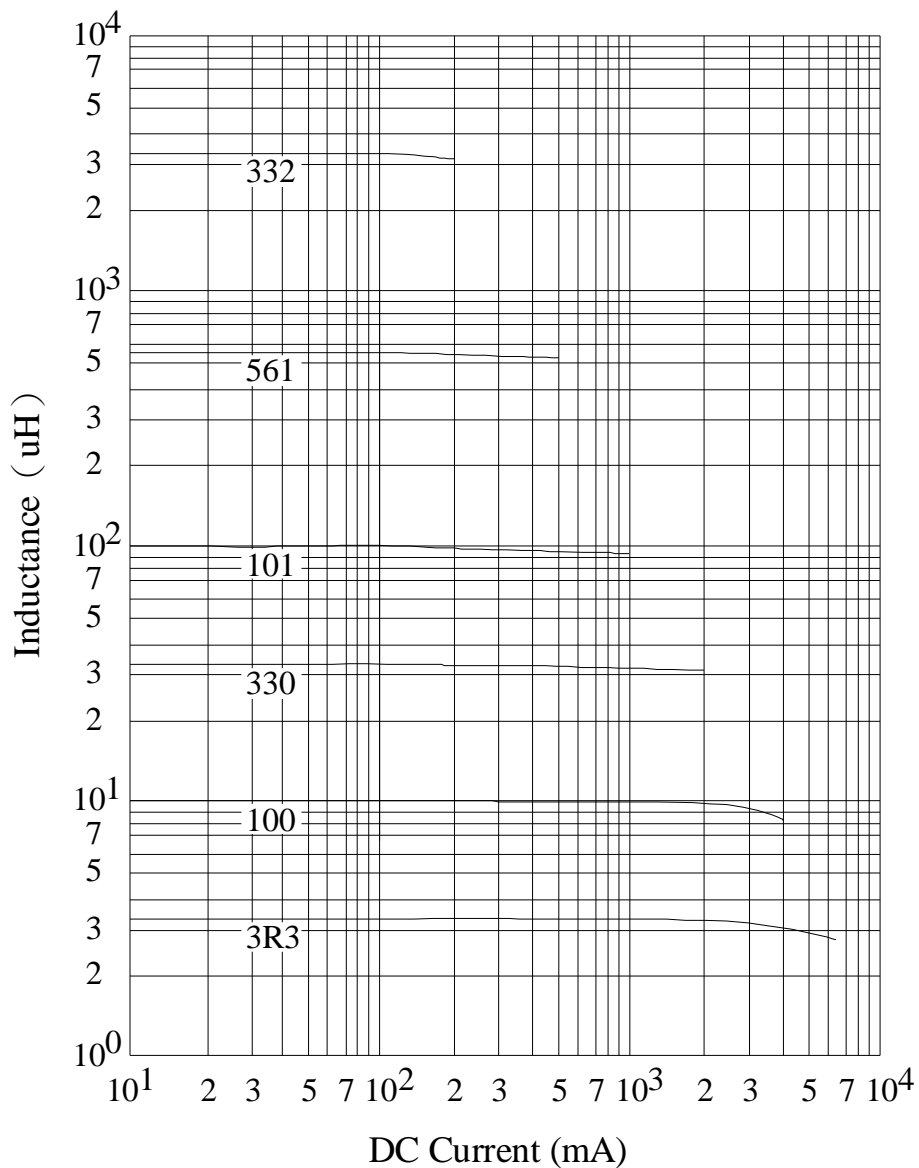
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VI . INDUCTANCE VS. DC CURRENT CURVE :



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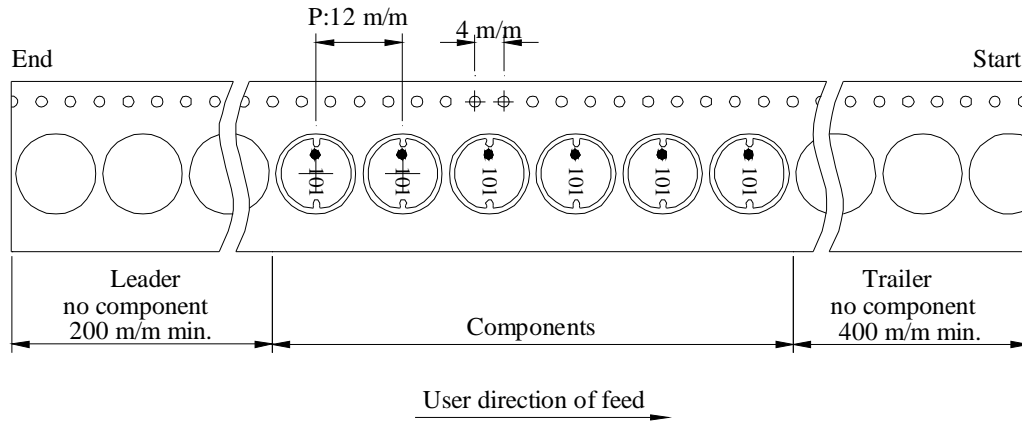
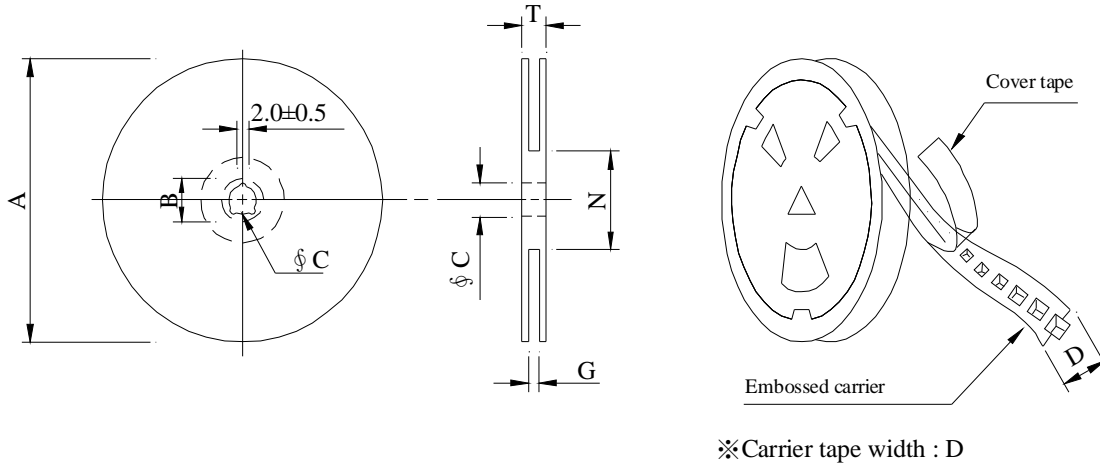
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## VII . PACKAGING INFORMATION :

### ( 1 ) Configuration



### ( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 <sup>+0</sup>	50 <sup>-0</sup>	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)
SR0805	1,000	1,300	13 - 16	6,000	10.5	40 x 40 x 24
SR0805	500	650	13 - 16	3,000	5.25	40 x 40 x 24

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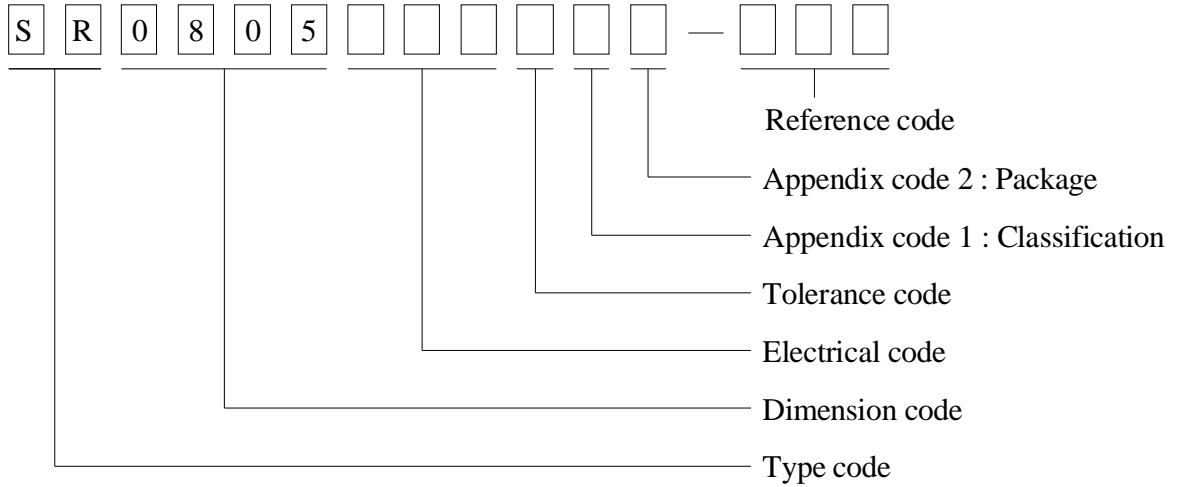
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**VIII . DWGING NUMBER EXPRESSION :**



**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 )	1000 pcs	
C	T / R ( Reel package )	1000 pcs	Hot-press
D	T / R ( Reel package )	500 pcs	

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**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; border-bottom: 1px solid black;">-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; border-bottom: 1px solid black;">+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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X . UL CARD :

OBMW2 September 8, 2000  
Magnet Wire-Component  
**JUNG SHING WIRE CO LTD** E174837  
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN  
HSIEN TAIWAN

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
AIW	---	Polyamideimide	---	---	MW81-C	220
CFUEWB	---	Polyurethane	---	---	MW75C	130
EIAIW	---	Polyesterimide	Polyamideimide	---	MW35C	200
EILOCKY	---	Polyesterimide	Polyamide	---	---	180
EILOCKW	---	Polyesterimide	Modified Epoxy	---	---	200
EIW	---	Polyesterimide	---	---	---	220
EIW-2	---	Polyesterimide	---	---	MW74-C	200
FL.EILOCKY	---	Modified Polyester	Polyamide	---	---	155
LSFFW	---	Polyurethane	---	---	MW79-C	155
LSUEW	---	Polyurethane	---	---	---	130
PEW	---	Polyester	---	---	---	155
PEY	---	Polyester	Nylon	---	MW24-C	155
SF.FLW	---	Modified Polyester	---	---	MW26C	155
SF.EIW	---	<b>Polyesterimide</b>	---	---	MW77C	180
SF.BY@	---	Modified Polyester	Nylon	---	MW27-C	155
SF.FLY@	---	Modified Polyester	Nylon	---	MW27-C	155
SF.BLOCKBS	---	Modified Polyester	Modified Polyamide	---	---	155
SF.EILOCKY#	---	Polyesterimide	Polyamide	---	---	180
SF.EILOCKBS	---	Polyesterimide	Modified Polyamide	---	---	180
SF.BW@	---	Modified Polyester	---	---	MW26C	155
SFFW	---	Polyurethane	---	---	MW79	155

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Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
SFFY	---	Polyurethane	Polyamide	---	MW80C	155
UEW-1	---	Polyurethane	---	---	MW2-C	105
UEW-2	---	Polyurethane	---	---	---	130
UEW-4	---	Polyurethane	---	---	MW75C	130
UEY	---	Polyurethane	Nylon	---	MW28-C	130
UEY-2	---	Polyurethane	Polyamide	---	MW28-C	130

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OBMW2E174837  
September 8 , 2000

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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 MW-79	180 155
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.