

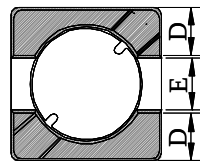
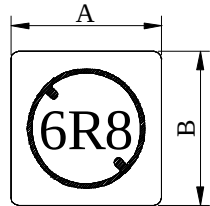
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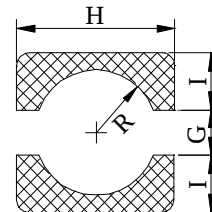
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH3018□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

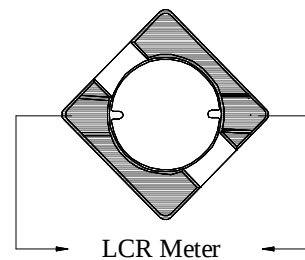


A	: 3.80±0.30	m/m
B	: 3.80±0.30	m/m
C	: 1.65±0.15	m/m
D	: 1.30 typ.	m/m
E	: 1.20 typ.	m/m
G	: 1.10 ref.	m/m
H	: 4.30 ref.	m/m
I	: 1.60 ref.	m/m
R	: 1.30 ref.	m/m



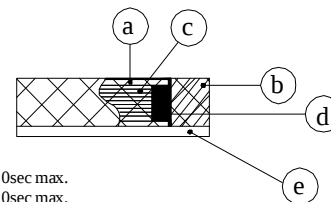
(PCB Pattern suggestion)

II . SCHEMATIC DIAGRAM :



III . MATERIALS :

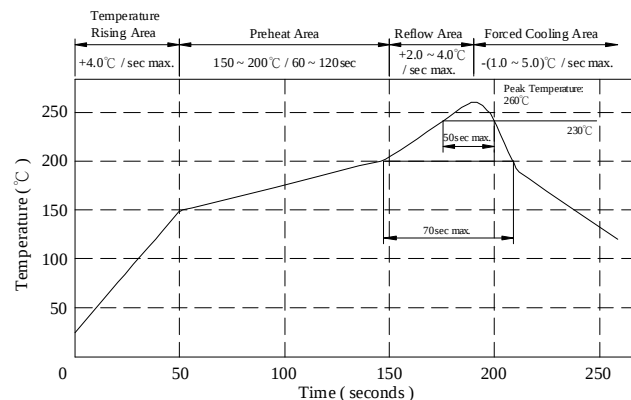
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (class F & H)
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/Sn
- f . Remark : Products comply with RoHS' requirements



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 : 30°C max.
- b . Storage temp. : -40°C ---+125°C
- c . Operating temp. : -25°C ---+105°C
- d . Resistance to solder heat : 260°C .10 secs.



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ABC 千如電子集團
ABC ELECTRONICS GROUP.

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NAME	POWER INDUCTOR	ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	SRF (MHz) typ.	RDC (m Ω)		Irms (mA) max.	Isat (mA) typ.
			max.	typ.		
SH30181R5YL□-□□□	1.5 $\pm$ 30%	118	47	35	1750	1550
SH30182R5YL□-□□□	2.5 $\pm$ 30%	79	58	45	1450	1250
SH30183R6YL□-□□□	3.6 $\pm$ 30%	79	85	65	1380	1100
SH30184R7YL□-□□□	4.7 $\pm$ 30%	61	105	85	1200	900
SH30186R8YL□-□□□	6.8 $\pm$ 30%	46	156	125	850	750
SH3018100YL□-□□□	10.0 $\pm$ 30%	39	205	165	740	560
SH3018150YL□-□□□	15.0 $\pm$ 30%	31	285	230	620	450
SH3018220YL□-□□□	22.0 $\pm$ 30%	29	450	360	510	360
SH3018330YL□-□□□	33.0 $\pm$ 30%	24	660	545	420	320
SH3018470YL□-□□□	47.0 $\pm$ 30%	21	1000	800	390	250
SH3018680YL□-□□□	68.0 $\pm$ 30%	13	1450	1200	320	220
SH3018101YL□-□□□	100.0 $\pm$ 30%	10	2400	2050	250	180

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

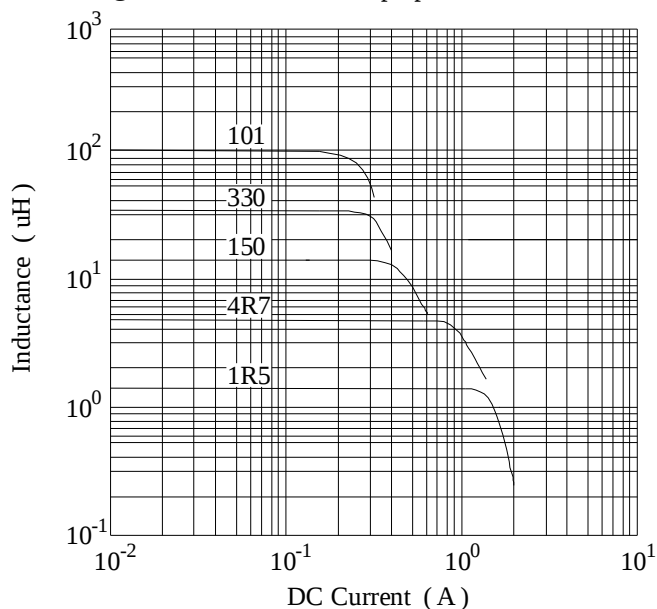
2). "-□□□" : Reference code

3). Inductance Test Freq. : 100KHz /0.1V

4). Irms base on Temp. rise 30°C max.

5). Isat base on $\Delta L/L0A = 35\%$ typ.

@ Inductance VS. DC Superposition Characteristics



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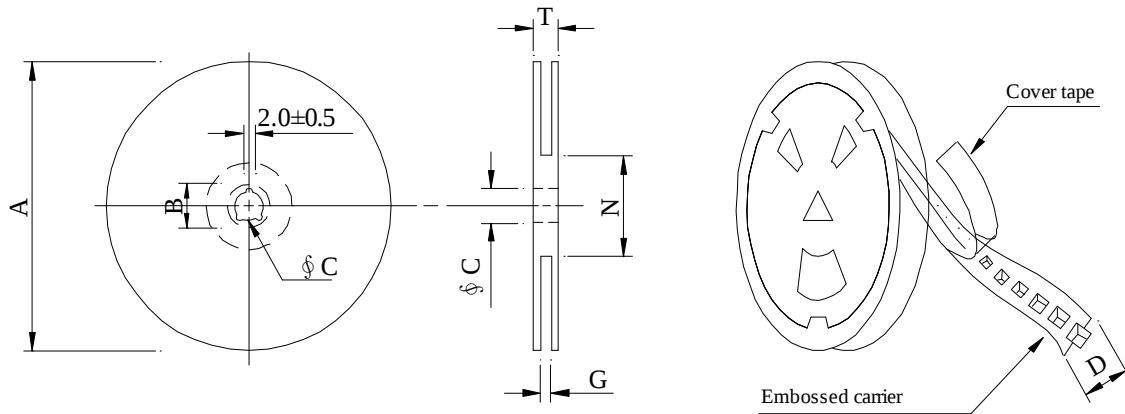
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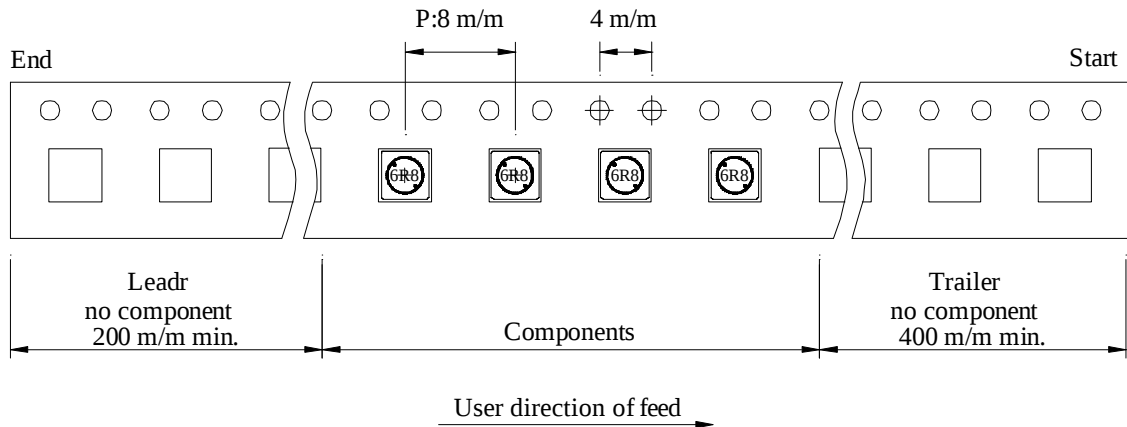
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		ABC'S ITEM NO.	

VI . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14 ⁺⁰	50 ⁻⁰	16.5

(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)
SH3018	1,000	150	07 - 12	40,000	8.50	42 x 41 x 24

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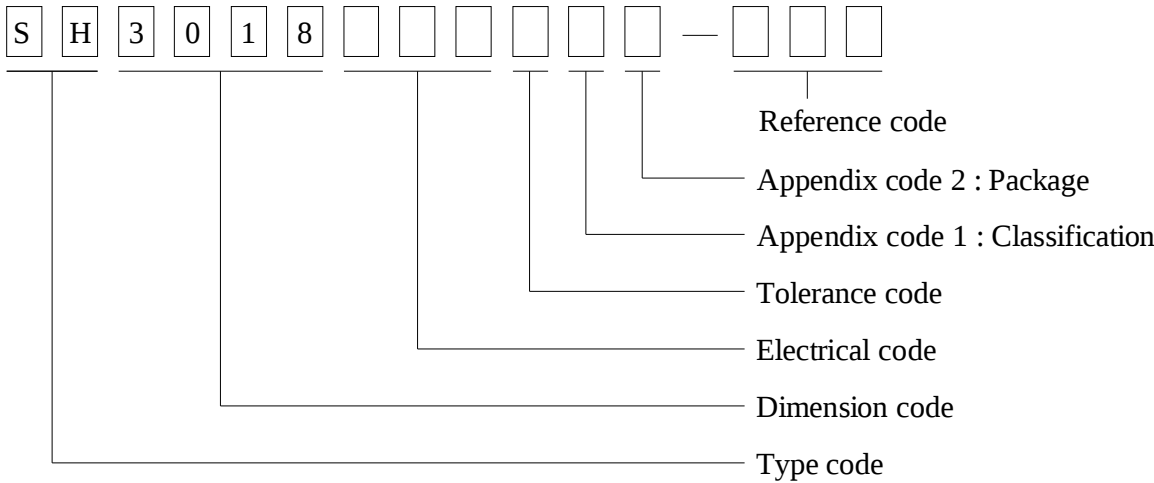
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NAME	POWER INDUCTOR	ABC'S ITEM NO.	

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)	1,000 pcs	
C	T /R (Reel package)	1,000 pcs	Hot-press Type

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		ABC'S ITEM NO.	

VIII . RELIABILITY TEST :

Test item	Specification	Test condition
Solderability	More than 95% of the terminal electrode Shall be covered With fresh solder.	Preheat : 155℃ / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5℃ Flux : Rosin Dip time : 5±0.5 seconds
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	Room temp. → -25 ℃ 15 minutes 30 minutes Room temp. → +105 ℃ 15 minutes 30 minutes Total : 50 cycles
Humidity test		Temperature : 40±2℃ Humidity : 90±5% Time : 1000 hours
High temp. Resistance test		Temperature : 105±5℃ Applied current : Per spec. Time : 96 hours

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		ABC'S ITEM NO.	

IX . UL CARD :

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

September 8, 2000

E174837

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	—	Polyesterimide	—	—	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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committed to quality service

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

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZL.

LZ - Signifies magnd wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks JSW or 榮星電線, material designation or marked designation on packaed or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions

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

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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		—	MW-79	155

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

See General Information preceding These Recognitions

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