

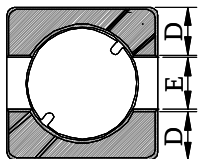
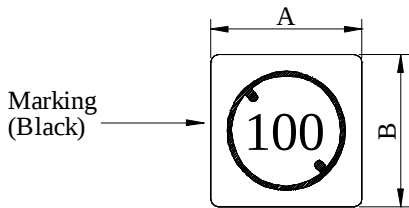
SPECIFICATION FOR APPROVAL

REF : 20080801-A

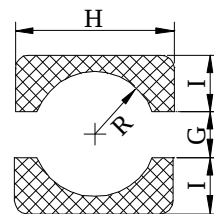
PAGE: 1

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH3027□□□□L□-□□□
		ABC'S ITEM NO.	

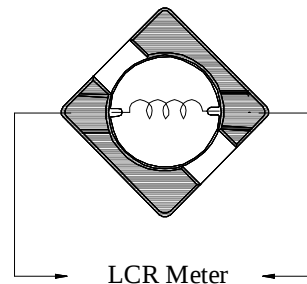
I . CONFIGURATION & DIMENSIONS :



A	: 3.80 ±0.30	m/m
B	: 3.80 ±0.30	m/m
C	: 2.80 ±0.20	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	: 1.40 ref.	m/m



(PCB Pattern Suggestion)

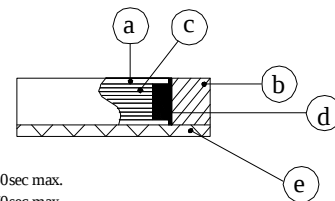


II . SCHEMATIC DIAGRAM :



III . MATERIALS :

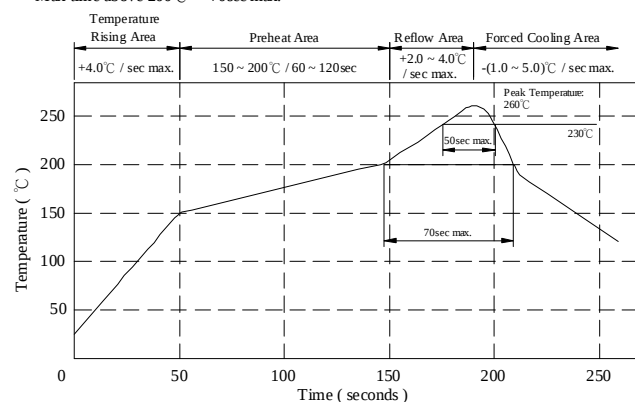
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (Class F & H)
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/Sn
- f . Remark : Products comply with RoHS' requirements



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 : 20°C typ.
- b . Storage temp. : -40°C ----+125°C
- c . Operating temp. : -40°C ----+105°C
- d . Resistance to solder heat : 260°C.10 secs.



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SPECIFICATION FOR APPROVAL

REF : 20080801-A

PAGE: 2

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH3027□□□□L□-□□□
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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (m Ω)		Isat (mA) typ.	Irms (mA) typ.
					typ.	max.		
SH30274R7YL□-□□□	4.7 $\pm$ 30 %	5	7.96	50	30	40	750	2000
SH3027100YL□-□□□	10.0 $\pm$ 30 %	8	2.52	30	60	78	530	1600
SH3027150YL□-□□□	15.0 $\pm$ 30 %	7	2.52	25	88	115	400	1300
SH3027220YL□-□□□	22.0 $\pm$ 30 %	6	2.52	22	120	156	320	1100
SH3027330YL□-□□□	33.0 $\pm$ 30 %	7	2.52	18	165	215	270	920
SH3027470YL□-□□□	47.0 $\pm$ 30 %	7	2.52	16	225	280	230	820
SH3027680YL□-□□□	68.0 $\pm$ 30 %	6	2.52	11	335	420	190	660
SH3027101YL□-□□□	100.0 $\pm$ 30 %	8	0.796	9	465	580	160	600
SH3027121YL□-□□□	120.0 $\pm$ 30 %	8	0.796	8	600	750	140	520
SH3027151YL□-□□□	150.0 $\pm$ 30 %	10	0.796	7	690	860	125	480
SH3027221YL□-□□□	220.0 $\pm$ 30 %	8	0.796	6	1050	1320	100	380

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

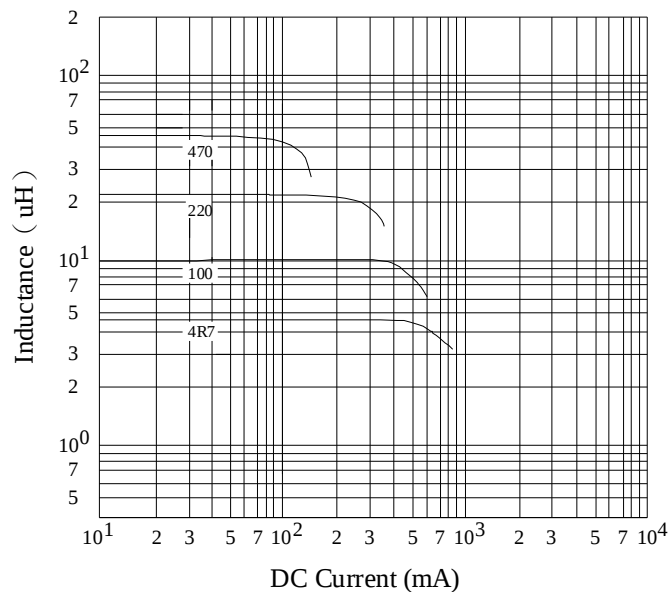
2) . "-□□□":Reference code

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

4) . Isat base on $\Delta L / L_0 A = 35\%$ typ.

5) . Irms base on Temp. rise 20°C typ.

@ Inductance VS. DC Current Curve



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SPECIFICATION FOR APPROVAL

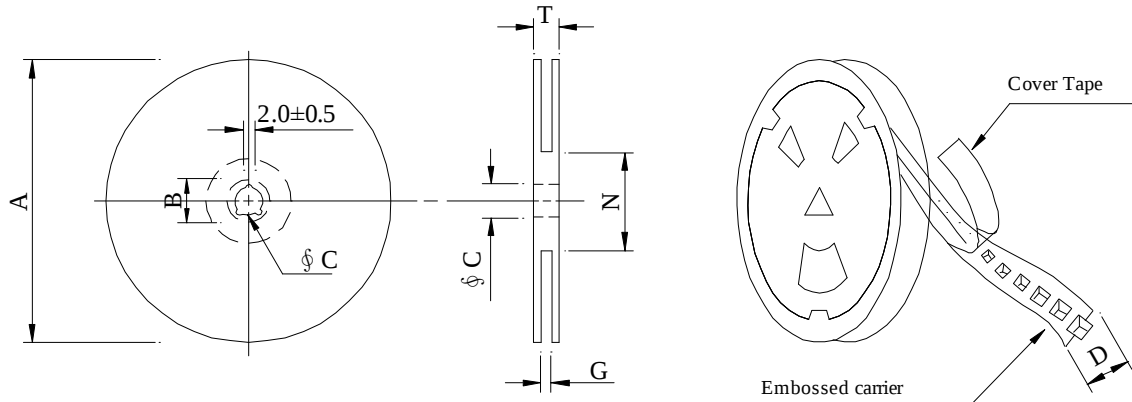
REF : 20080801-A

PAGE: 3

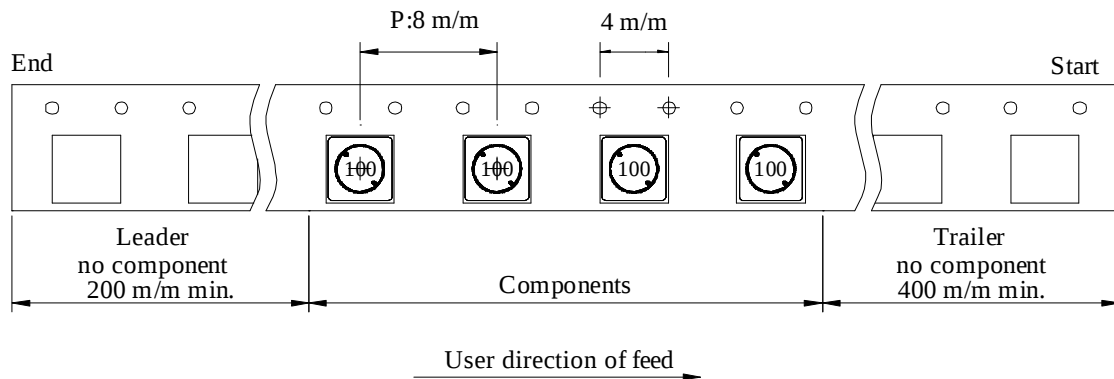
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VI . PACKAGING INFORMATION :

(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)
SH3027	500	140	07 - 12	2,0000	8.0	42 x 41 x 24

AR-001A

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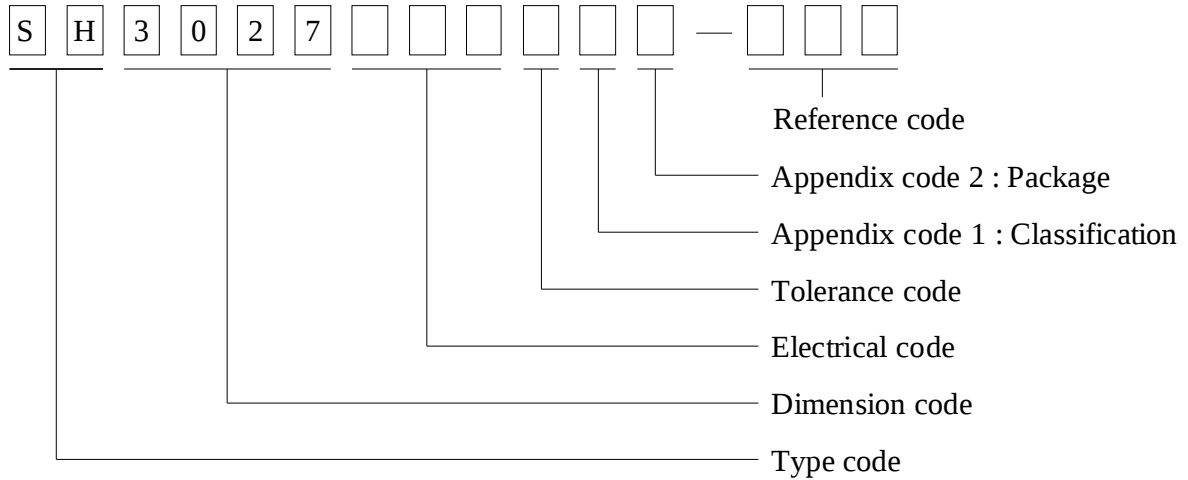
SPECIFICATION FOR APPROVAL

REF : 20080801-A

PAGE: 4

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH3027□□□□L□-□□□
		ABC'S ITEM NO.	

VII . 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)	500 pcs	

SPECIFICATION FOR APPROVAL

REF : 20080801-A

PAGE: 5

PROD.	SHIELDED SMD	ABC'S DWG NO.	SH3027□□□□L□-□□□
NAME	POWER INDUCTOR	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. → -40 ℃ 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

AR-001A

SPECIFICATION FOR APPROVAL

REF : 20080801-A

PAGE: 6

PROD.	SHIELDED SMD	ABC'S DWG NO.	SH3027□□□□L□-□□□
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IX . UL CARD :

OBMW2
Magnet Wire-Component
JUNG SHING WIRE CO LTD
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN
HSIEN TAIWAN
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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Page 1 of 2

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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 LZI.

LZ - Signifies magened 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.

287806002

Page 2 of 2

OBMW2/E174837
September 8, 2000

AR-001A



SPECIFICATION FOR APPROVAL

REF : 20080801-A

PAGE: 7

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH3027□□□□L□-□□□
		ABC'S ITEM NO.	

OBMW2

October 06, 2005

Magnet Wire-Comporent

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-79	155
Polysol P155p	P155p	Polyurethane	—	MW-83	180
				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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