

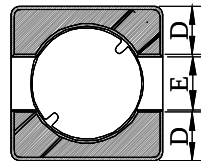
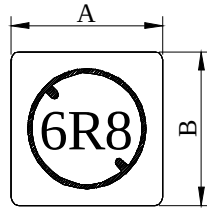
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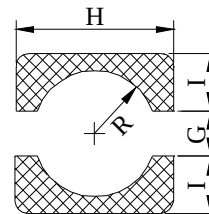
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH3018□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

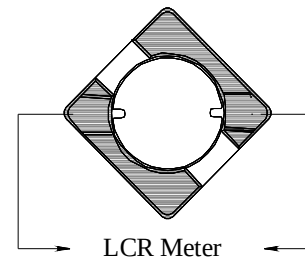
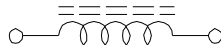


A	: 3.80±0.30	m/m
B	: 3.80±0.30	m/m
C	: 1.65±0.15	m/m
D	: 1.30 typ.	m/m
E	: 1.20 typ.	m/m
G	: 1.10 ref.	m/m
H	: 4.30 ref.	m/m
I	: 1.60 ref.	m/m
R	: 1.30 ref.	m/m



(PCB Pattern suggestion)

II . SCHEMATIC DIAGRAM :

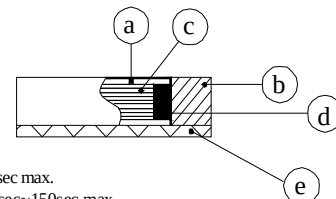


III . MATERIALS :

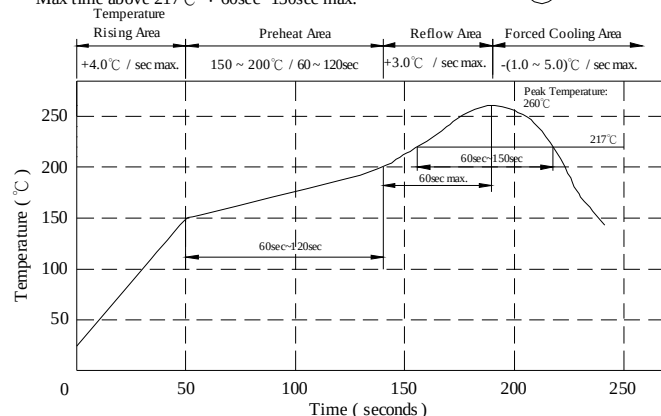
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (class H)
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/Sn
- f . Remark : Products comply with RoHS' requirements

IV . GENERAL SPECIFICATION :

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



Peak Temp : 260°C max.
Max. Peak Temp - 5°C : 30sec max.
Max time above 217°C : 60sec~150sec max.



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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μH)	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

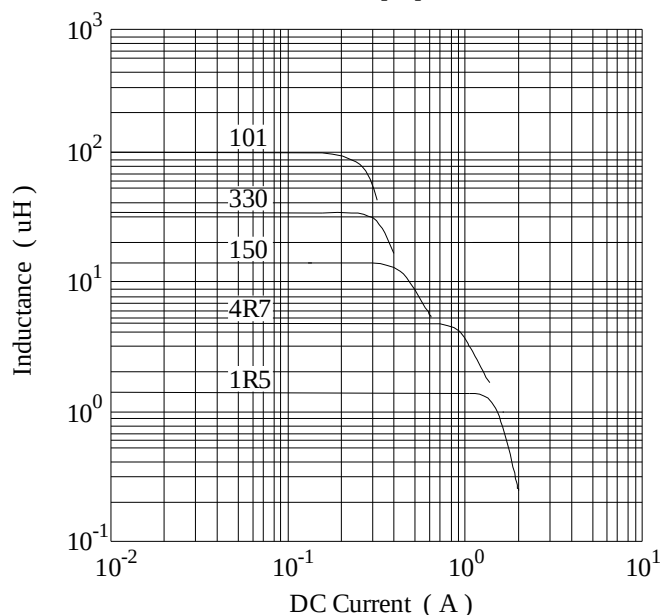
2). "- □□□ " : Reference code

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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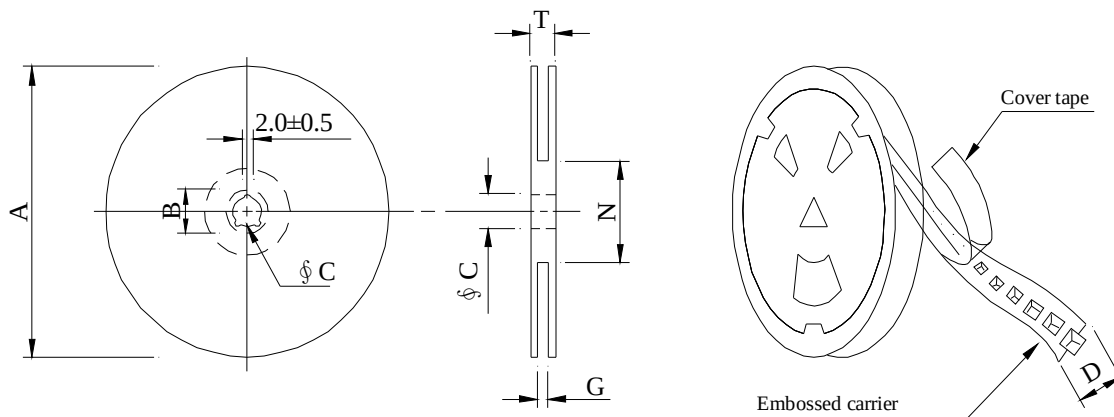
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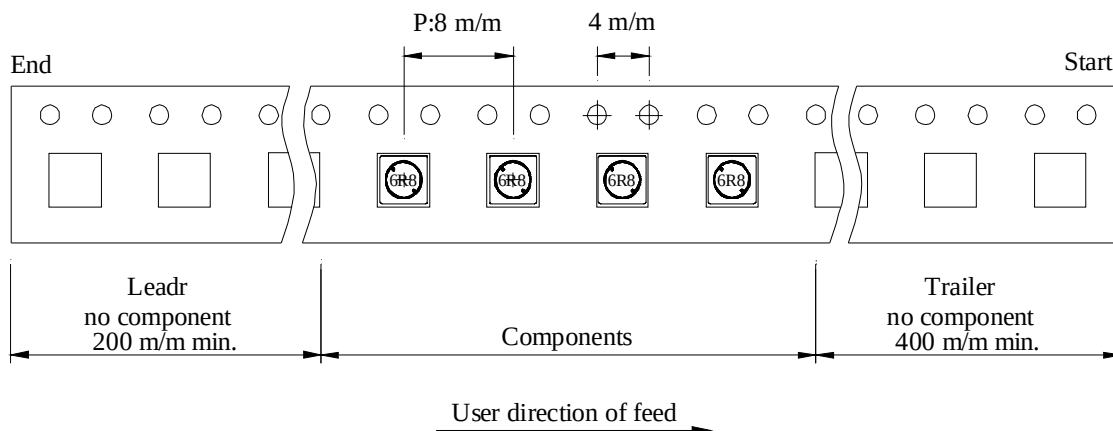
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VI . PACKAGING INFORMATION :

(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

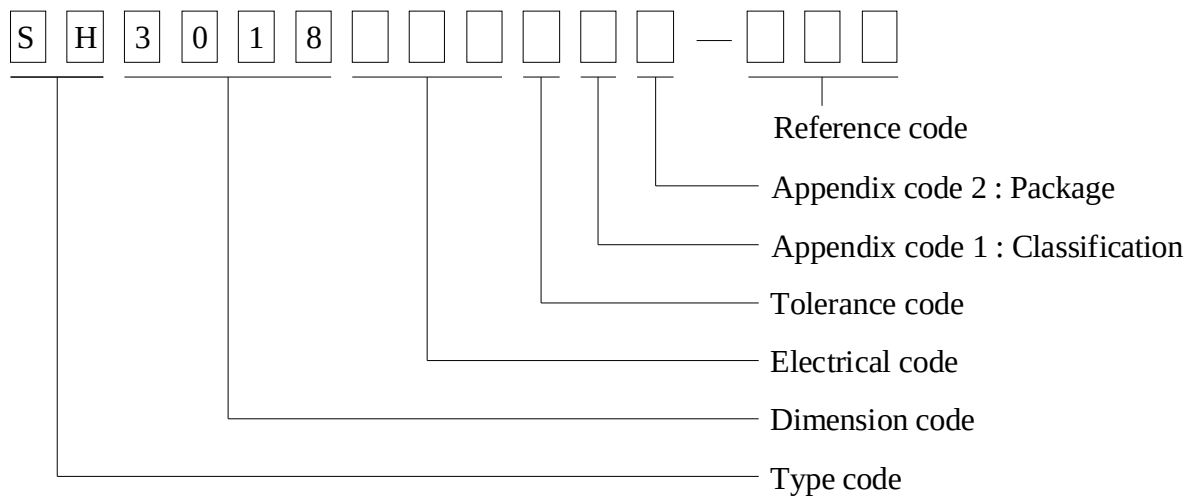
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VIII . DWGING NUMBER EXPRESSION :



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	

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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. → +125 ℃ 15 minutes 30 minutes Total : 50 cycles
Humidity test		Temperature : 40±2℃ Humidity : 90±5% Time : 1000 hours
High temp. Resistance test		Temperature : 125±5℃ Applied current : Per spec. Time : 96 hours

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NAME	POWER INDUCTOR	ABC'S ITEM NO.	

IX . UL CARD :

OBMW2
Magnet Wire-Component
October 06, 2005
ELEKTRISOLA (MALAYSLA) SDN BHD
JALAN DAMAI SATU JANDA BAIK 28750 BENTONG, PAHANG
DARUL MAKMUR MALAYSIA
E143312

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.