

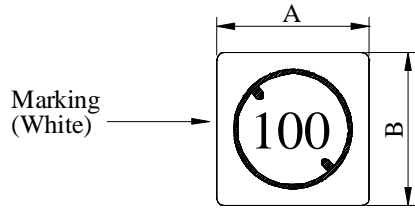
SPECIFICATION FOR APPROVAL

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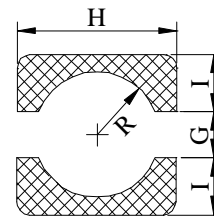
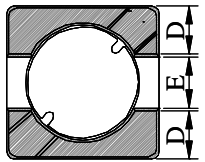
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH3028□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

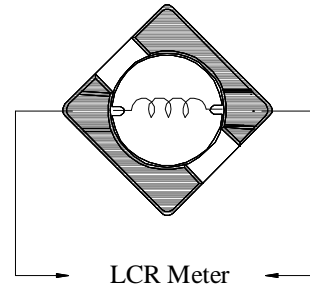


- A : 3.80 ±0.30 m/m
- B : 3.80 ±0.30 m/m
- C : 2.80 ±0.20 m/m
- D : 1.30 typ. m/m
- E : 1.20 typ. m/m
- G : 1.10 ref. m/m
- H : 4.30 ref. m/m
- I : 1.60 ref. m/m
- R : 1.40 ref. m/m



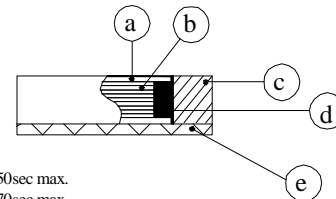
(PCB Pattern Suggestion)

II . SCHEMATIC DIAGRAM :



III . MATERIALS :

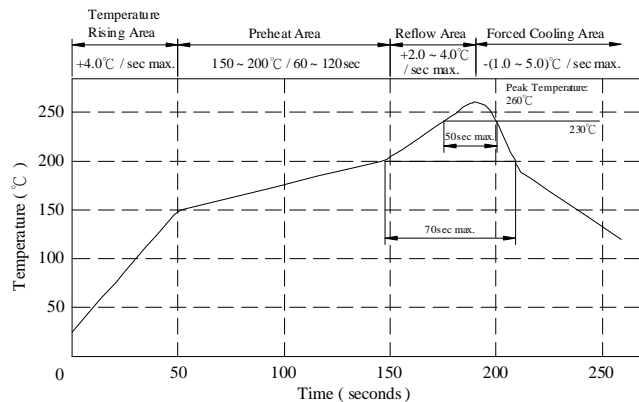
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (Class H)
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/Sn
- f . Remark : Products comply with RoHS' requirements



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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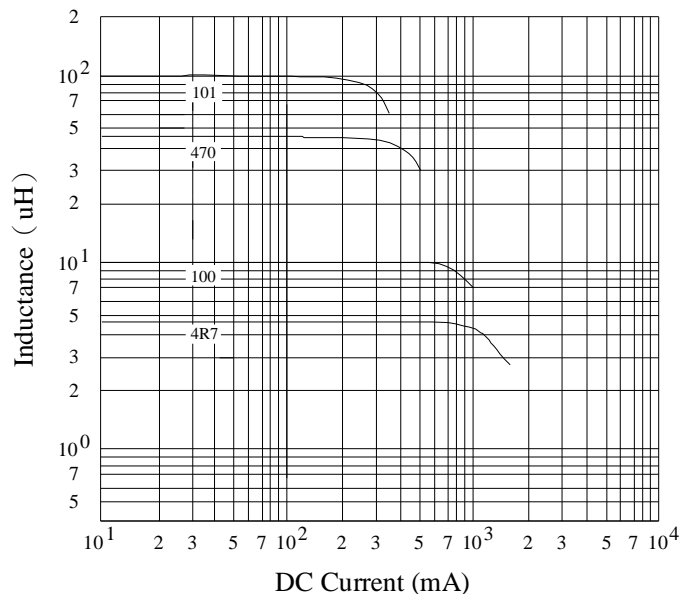
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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC ($\text{m}\Omega$)		Isat (mA) typ.	Irms (mA) typ.
					typ.	max.		
SH30283R3YL□-□□□	$3.3 \pm 30\%$	7	7.96	55	40	52	1700	1950
SH30284R7YL□-□□□	$4.7 \pm 30\%$	6	7.96	50	43	56	1400	1900
SH30286R8YL□-□□□	$6.8 \pm 30\%$	7	7.96	45	82	108	1150	1300
SH3028100YL□-□□□	$10.0 \pm 30\%$	8	2.52	30	96	125	900	1100
SH3028150YL□-□□□	$15.0 \pm 30\%$	7	2.52	20	160	200	700	920
SH3028220YL□-□□□	$22.0 \pm 30\%$	8	2.52	14	255	320	600	820
SH3028330YL□-□□□	$33.0 \pm 30\%$	7	2.52	12	350	440	500	660
SH3028470YL□-□□□	$47.0 \pm 30\%$	8	2.52	10	430	535	450	600
SH3028680YL□-□□□	$68.0 \pm 30\%$	6	2.52	8	620	780	360	520
SH3028101YL□-□□□	$100.0 \pm 30\%$	10	0.796	7	925	1150	300	480

- 1). □ : Packaging Information... [A] : Bulk [B] : Taping Reel
- 2). "- □□□": Reference code
- 3). Inductance Test Freq. : 100KHz / 0.1V
- 4). Isat base on $\Delta L / L0A=35\%$ typ.
- 5). Irms base on Temp. rise 20°C typ.

@ Inductance VS. DC Current Curve



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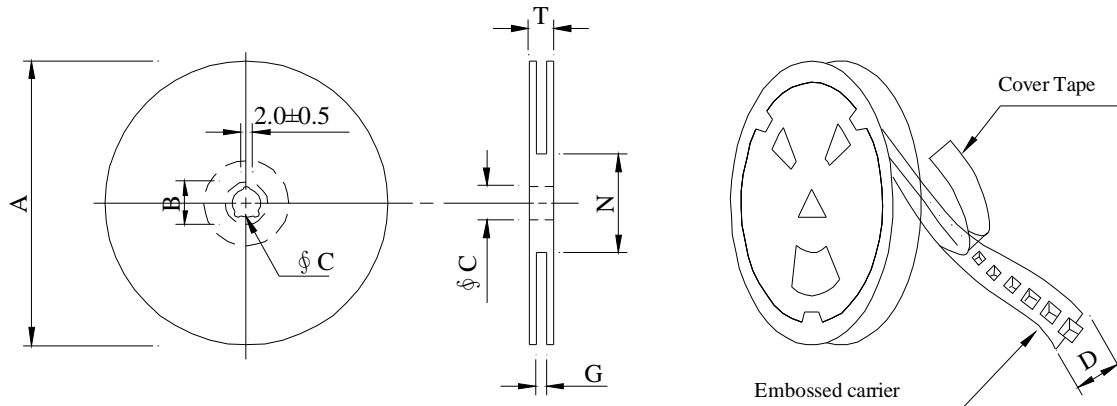
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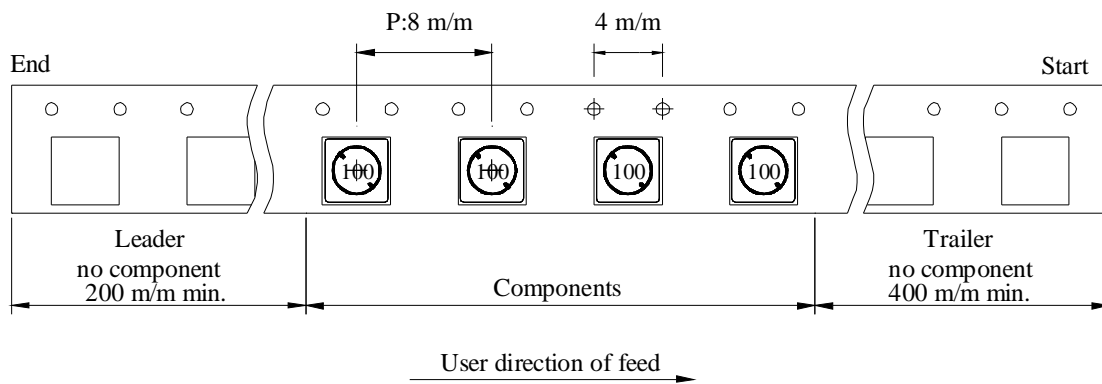
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VI . PACKAGING INFORMATION :

(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)
SH3028	500	140	07 - 12	20,000	8.0	42 x 41 x 24

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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°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;">→</td> <td style="text-align: center;">-40 °C 30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">+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						
Biased Humidity		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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IX . UL CARD :

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.

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