

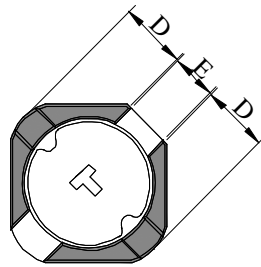
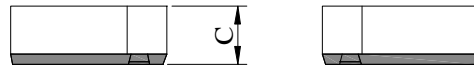
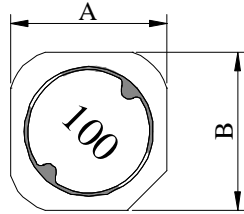
SPECIFICATION FOR APPROVAL

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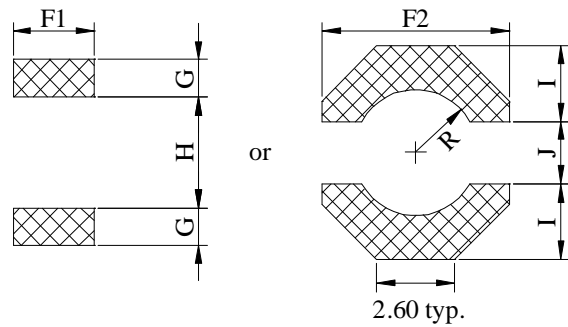
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SV6023□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :



- A : 6.50±0.20 G : 1.60 ref.
- B : 6.50±0.20 H : 4.90 ref.
- C : 2.30±0.25 I : 3.20 ref.
- D : 2.85 typ. J : 2.00 ref.
- E : 1.80 typ. R : 2.65 ref.
- F1 : 4.00 ref.
- F2 : 7.60 ref.



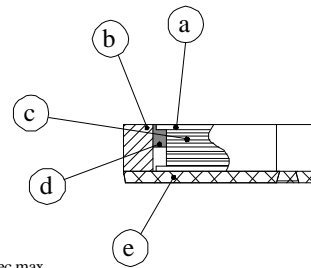
(PCB Pattern Suggestion)

II . SCHEMATIC DIAGRAM :

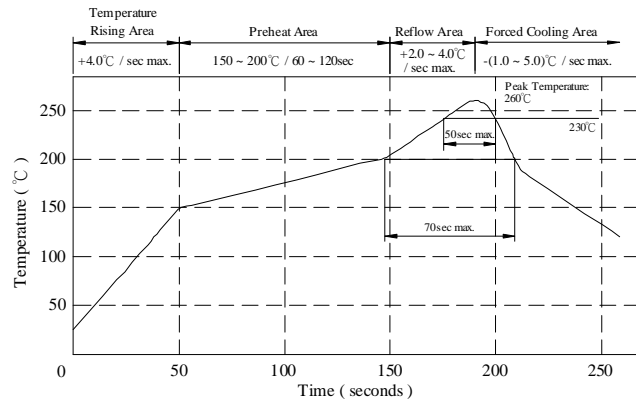


III . MATERIALS :

- 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 : 40°C max.
- 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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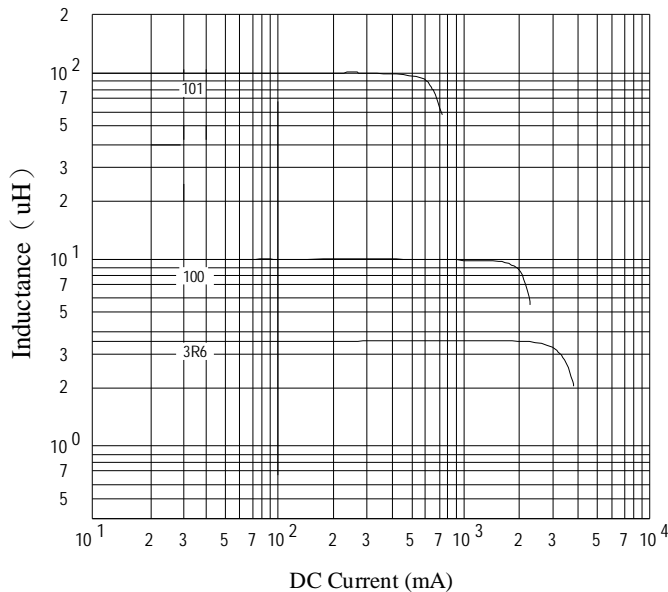
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		ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (m Ω)		Irms (mA) max.	Isat.(mA) (25 $^{\circ}$ C) max.	Isat.(mA) (105 $^{\circ}$ C) max.	Isat.(mA) (125 $^{\circ}$ C) max.
					typ.	max.				
SV60233R3YL□-□□□	3.30 \pm 30 %	10	7.96	65	27.5	35.5	2800	3500	2300	2100
SV60234R2YL□-□□□	4.20 \pm 30 %	10	7.96	60	33.0	49.5	2600	3200	2100	1900
SV60235R2YL□-□□□	5.20 \pm 30 %	10	7.96	55	37.0	50.0	2400	3000	1900	1700
SV60236R3YL□-□□□	6.30 \pm 30 %	9	7.96	48	42.5	56.0	2200	2600	1700	1500
SV60237R2YL□-□□□	7.20 \pm 30 %	8	7.96	42	50.5	65.0	2000	2400	1600	1400
SV60239R0YL□-□□□	9.00 \pm 30 %	8	7.96	37	60.0	78.0	1900	2200	1500	1300
SV6023100YL□-□□□	10.00 \pm 30 %	9	2.52	35	66.5	90.0	1700	2050	1400	1200
SV6023120YL□-□□□	12.00 \pm 30 %	9	2.52	30	72.5	95.0	1500	1900	1250	1100
SV6023150YL□-□□□	15.00 \pm 30 %	9	2.52	27	105.0	135.0	1350	1600	1100	1000
SV6023180YL□-□□□	18.00 \pm 30 %	9	2.52	22	115.0	150.0	1250	1500	1000	900
SV6023220YL□-□□□	22.00 \pm 30 %	8	2.52	17	140.0	180.0	1050	1350	900	800
SV6023270YL□-□□□	27.00 \pm 30 %	8	2.52	14	175.0	230.0	950	1250	800	700
SV6023330YL□-□□□	33.00 \pm 30 %	9	2.52	12	205.0	265.0	850	1150	750	650
SV6023390YL□-□□□	39.00 \pm 30 %	8	2.52	11	220.0	285.0	750	1050	660	580
SV6023470YL□-□□□	47.00 \pm 30 %	8	2.52	10	265.0	350.0	700	950	590	500
SV6023560YL□-□□□	56.00 \pm 30 %	8	2.52	9	330.0	430.0	650	800	550	450
SV6023680YL□-□□□	68.00 \pm 30 %	7	2.52	8	390.0	510.0	600	750	510	400
SV6023820YL□-□□□	82.00 \pm 30 %	7	2.52	7	430.0	560.0	560	700	450	350
SV6023101YL□-□□□	100.00 \pm 30 %	9	0.796	6	550.0	720.0	500	650	420	300

- 1). □: Packaging Information... [A]: Bulk [B]: Taping Reel
- 2). "-□□□":Reference code
- 3). Inductance Test Freq. : 100KHz /0.1V
- 4). Irms base on Temp. rise 40 $^{\circ}$ C max.
- 5). Isat base on Δ L / L0A=35% max.

@ Inductance VS. DC Current Curve at 25 $^{\circ}$ C



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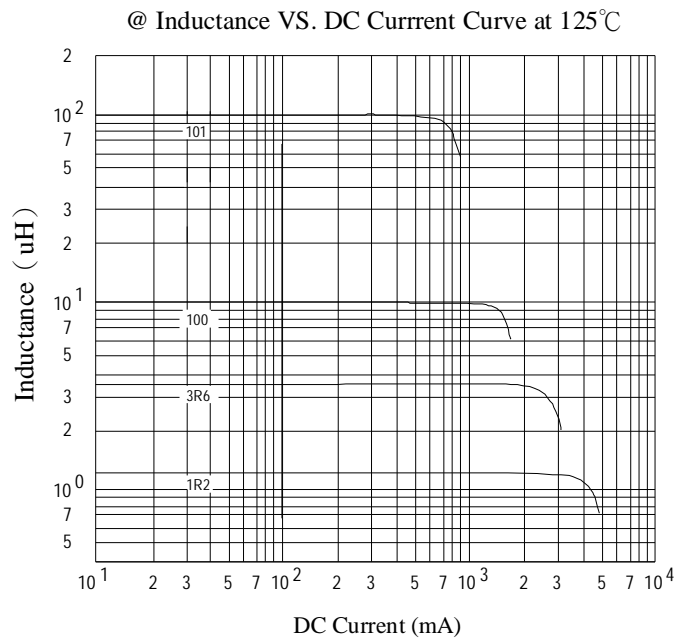
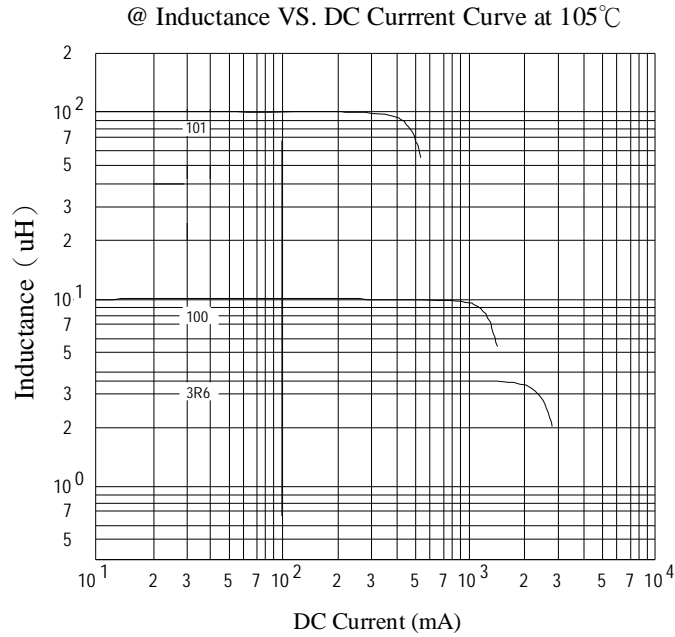


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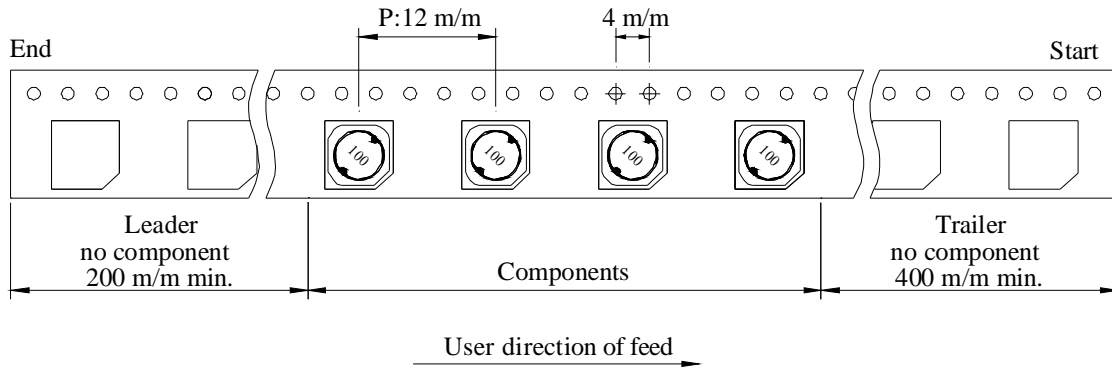
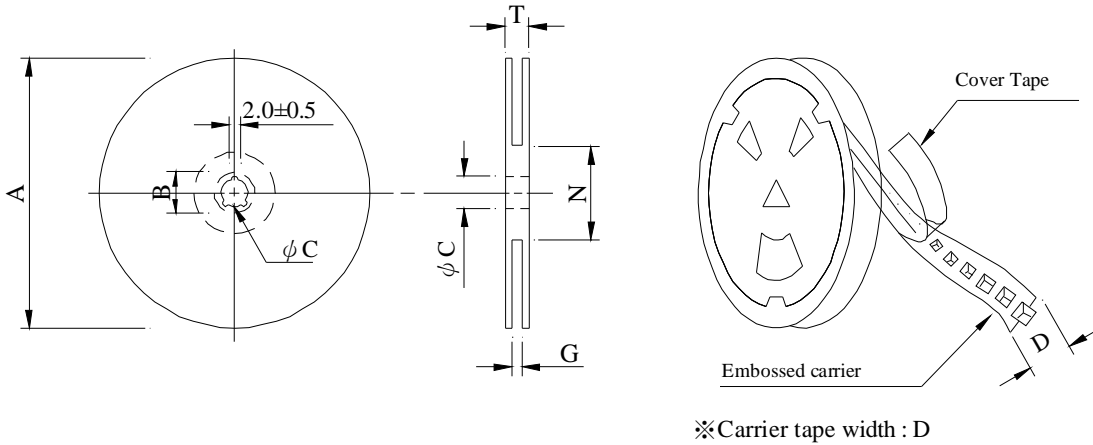
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		ABC'S ITEM NO.	

VI . 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 ⁺⁰	50 ⁻⁰	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)
SV6023	2,000	1,650	13 - 16	12,000	13.5	38 x 37 x 22

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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					
Humidity test		<p>Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours</p>						
High temp. Resistance test	<p>Temperature : 105±5°C Applied current : Per spec. Time : 96 hours</p>							

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NAME	POWER INDUCTOR	ABC'S ITEM NO.	

IX . UL CARD :

OBMW2 August 27, 1999
Magnet Wire-Component

ELEKTRISOLA (MALAYSIA) SDN BHD E143312
IALAN DAMN SATU IANDA BAIK 28750 BENTONG, PAHANG
DARUL MAKMUR MALAYSIA

Mtl Dsg	Mark Dsg	Coating Type		ANSI Typ	Temp Class
		BC	OC		
Estersol 160	E180	Polyesterimide (solderable)	---	MW-77	180
Amldester 200	A200	Polyesterimide	---	MW-74	200
Polysol-N 155	PN155	Polyurethane	Nylon	MW-80, MW-28	155, 100
Polysol 155	P155	Polyurethane	---	MW-79, MW-79	155, 130
Polysol 155g	Pg155	Polyurethane	---	MW-79	130
Polysol 155p	Pp155,Gp155	Polyurethane	---	MW-79	155
Polysol 160	P160	Polyurethane	---	MW-79	155
Polysol 180	P180	Polyurethane	---	MW-79	155
Polysol 170	P170 or G170	Polyurethane	---	MW-79	156
Polysol-N 180	PN180	Polyurethane	Nylon	---	180

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.