

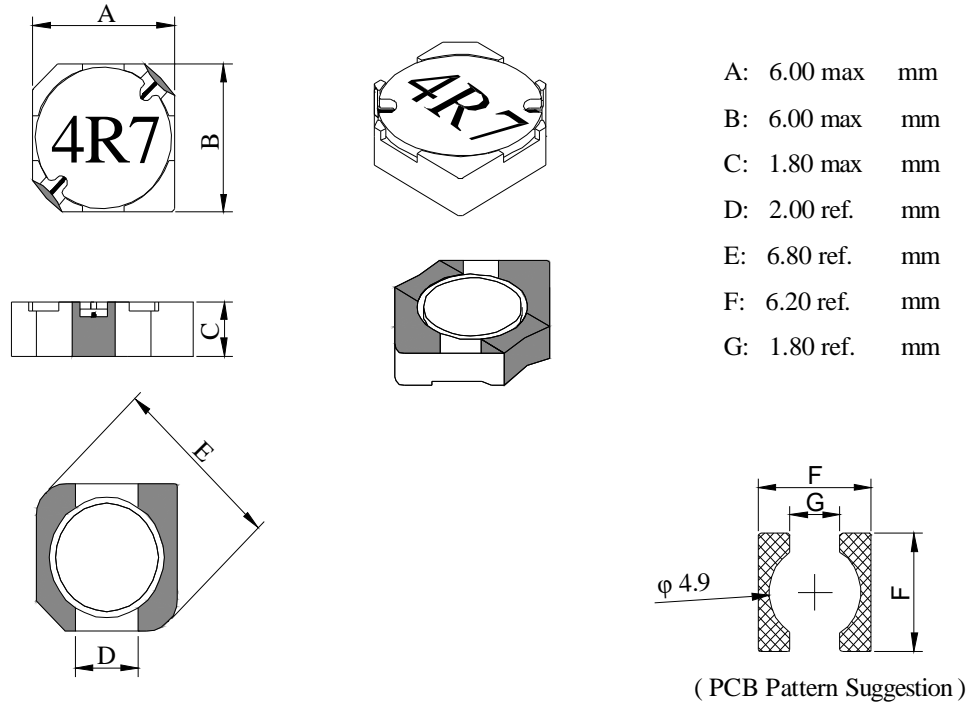
SPECIFICATION FOR APPROVAL

REF : 20090420-A

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	DH5018□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

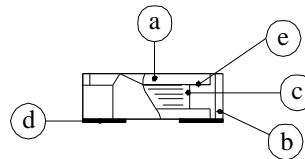


II . SCHEMATIC DIAGRAM :



III . MATERIALS :

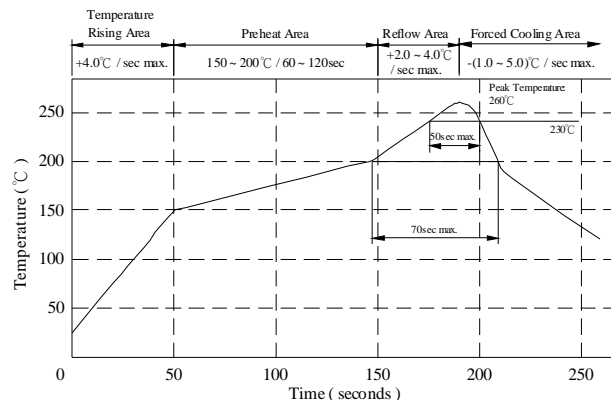
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (class H)
- d . Terminal : Ag / Ni / Sn
- e . Adhesive : Epoxy resin
- f . Remark : Products comply with RoHS' requirements



IV . GENERAL SPECIFICATION :

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

Peak Temp : 260°C max.
 Max time above 230°C : 50sec max.
 Max time above 200°C : 70sec max.



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V . ELECTRICAL CHARACTERISTICS :

DWG NO.	Inductance (μH)	RDC (mΩ) max.	Isat (A)	Irms (A)
DH50182R5YL□-□□□	2.5 ±30 %	36	2.35	2.68
DH50183R9YL□-□□□	3.9 ±30 %	58	1.80	2.30
DH50184R7YL□-□□□	4.7 ±30 %	65	1.65	2.10
DH50186R2YL□-□□□	6.2 ±30 %	84	1.40	1.80
DH50189R0YL□-□□□	9.0 ±30 %	119	1.20	1.50
DH5018100ML□-□□□	10.0 ±20 %	135	1.15	1.42
DH5018120ML□-□□□	12.0 ±20 %	170	1.00	1.25
DH5018150ML□-□□□	15.0 ±20 %	205	0.90	1.15
DH5018180ML□-□□□	18.0 ±20 %	233	0.85	1.12
DH5018220ML□-□□□	22.0 ±20 %	309	0.75	0.86
DH5018270ML□-□□□	27.0 ±20 %	359	0.72	0.95
DH5018330ML□-□□□	33.0 ±20 %	454	0.63	0.85
DH5018390ML□-□□□	39.0 ±20 %	575	0.55	0.75
DH5018470ML□-□□□	47.0 ±20 %	638	0.53	0.65
DH5018560ML□-□□□	56.0 ±20 %	835	0.45	0.62
DH5018680ML□-□□□	68.0 ±20 %	911	0.43	0.50
DH5018820ML□-□□□	82.0 ±20 %	1100	0.40	0.45
DH5018101ML□-□□□	100.0 ±20 %	1250	0.35	0.42

- 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 40°C typ.

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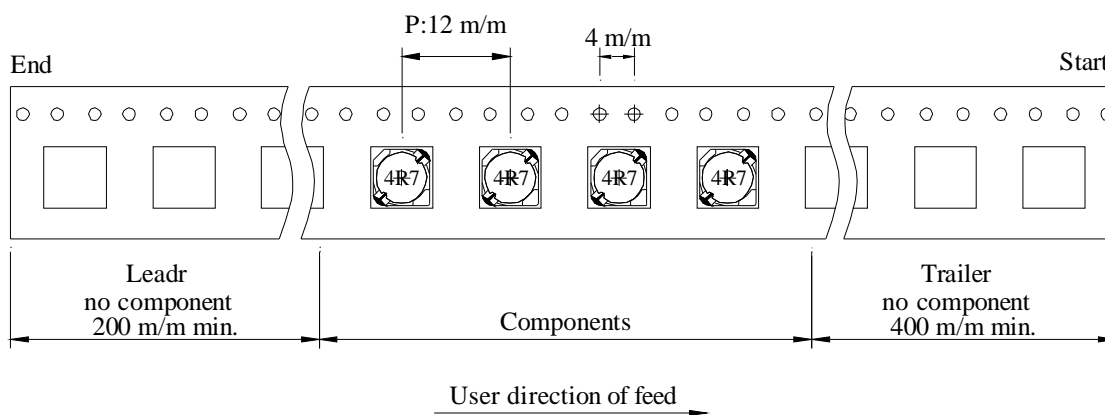
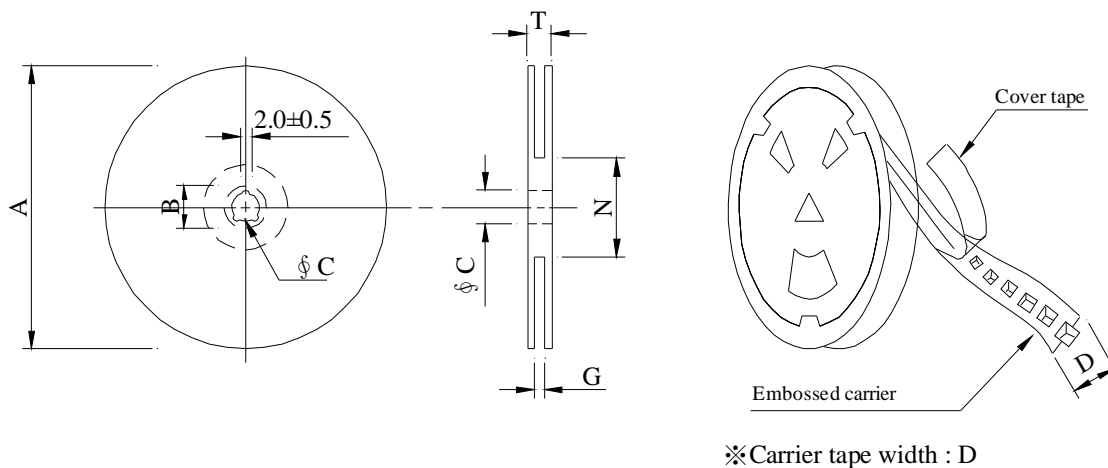
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VI . PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

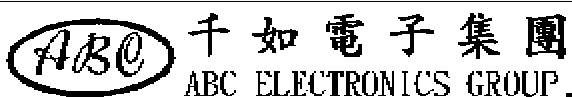
Unit:m/m

Style	A	B	C	D	G	N	T
07 - 16	178	21±0.8	13	16	18 ⁺⁰	50 ⁻⁰	20.5

(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)
DH5018	500	275	07 - 16	15,000	9.5	42 x 41 x 24

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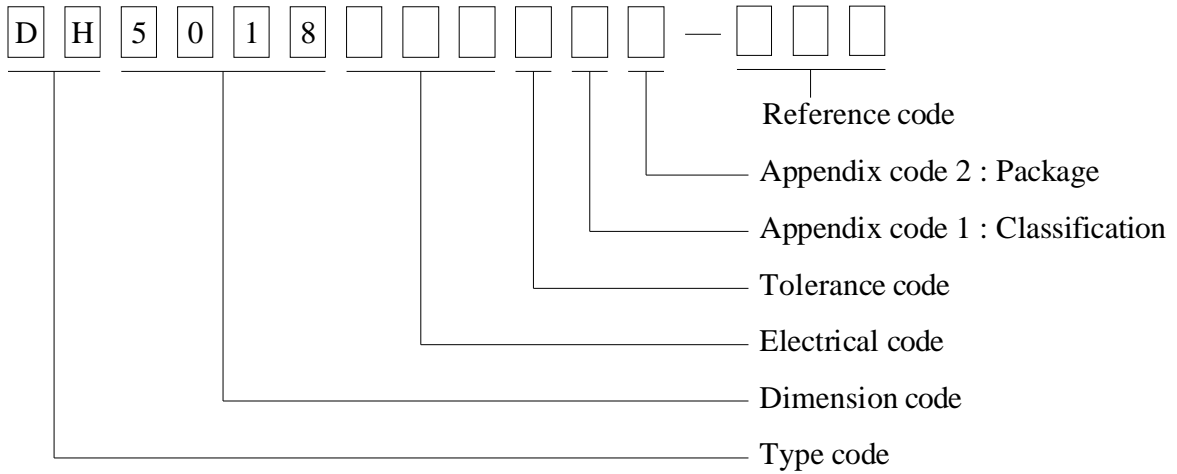
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VII . DWGING NUMBER EXPRESSION :



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 QTY	Remark
A	T.B.D.	T.B.D.	
B	T / R (Reel package)	500 pcs	

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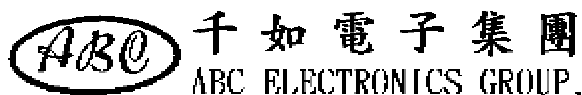
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NAME	POWER INDUCTOR	ABC'S ITEM NO.	

VIII . RELIABILITY TEST :

Test item	Specification	Test condition						
Solderability	More than 95% of the terminal electrode shall be covered With fresh solder.	Preheat : 155°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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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						
Mtd Dsg	Mark Dsg	Coating Type	BC	OC	ANSI Typ	Temp Class
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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