

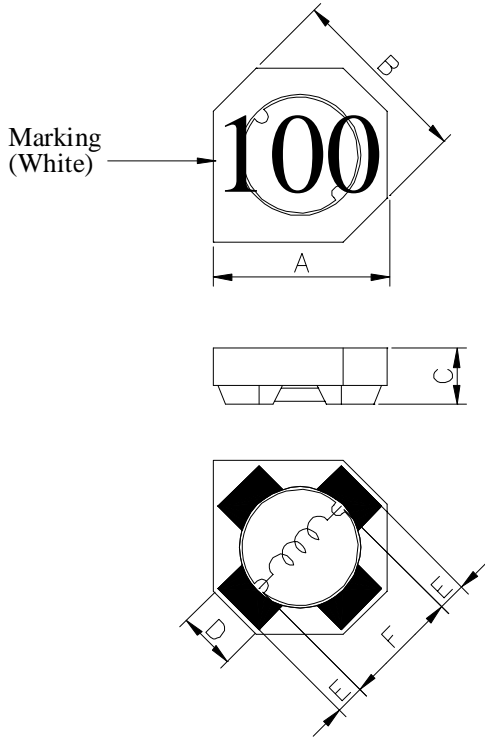
SPECIFICATION FOR APPROVAL

REF :

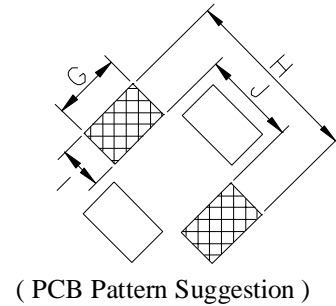
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU3018□□□□L□-□□□
		ABC'S ITEM NO.	

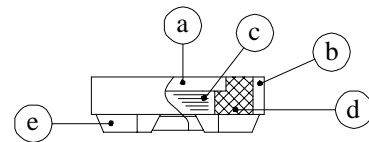
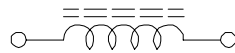
. CONFIGURATION & DIMENSIONS :



A	: 3.30	±0.20	m/m
B	: 3.50	±0.20	m/m
C	: 1.80	±0.20	m/m
D	: 1.10	typ.	m/m
E	: 0.50	typ.	m/m
F	: 2.30	typ.	m/m
G	: 1.30	ref.	m/m
H	: 4.20	ref.	m/m
I	: 1.20	ref.	m/m
J	: 1.80	ref.	m/m



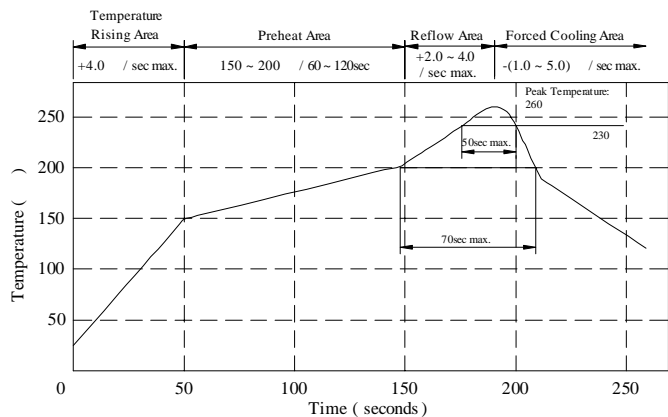
. SCHEMATIC DIAGRAM :



. MATERIALS :

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

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



. GENERAL SPECIFICATION :

- a . Temp. rise : 40 typ.
- b . Rated current :
Base on temp. rise & L / LOA=35% typ.
- c . Storage temp. : -40 ----+125
- d . Operating temp. : -40 ----+105
- e . Resistance to solder heat : 260 .10 secs.

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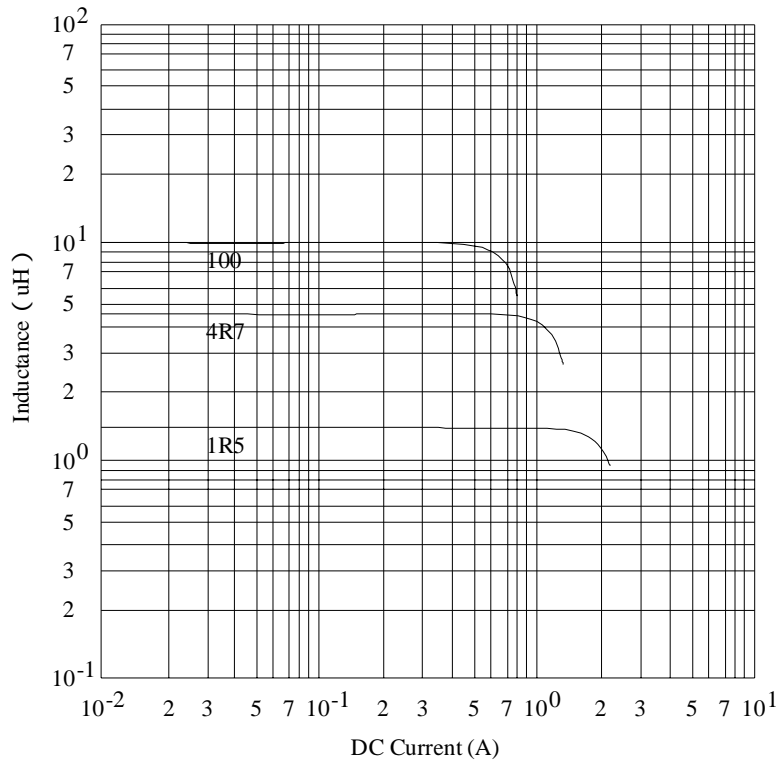
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ELECTRICAL CHARACTERISTICS :

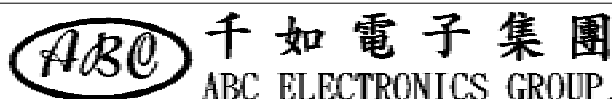
DWG No.	Inductance (μ H)	Q ref.	RDC ($m\Omega$)		SRF (MHz) typ.	I _{rms} (mA) typ.	I _{sat} (mA) typ.
			typ.	max.			
SU30181R5YL□-□□□	1.5 ± 30 %	10.0	45	58	150	1650	1850
SU30182R0YL□-□□□	2.0 ± 30 %	10.0	50	65	110	1450	1600
SU30183R0YL□-□□□	3.0 ± 30 %	10.0	75	98	80	1300	1450
SU30184R7YL□-□□□	4.7 ± 30 %	10.0	105	135	55	1000	1250
SU30186R8YL□-□□□	6.8 ± 30 %	10.0	165	205	35	800	850
SU3018100YL□-□□□	10.0 ± 30 %	25.0	290	360	30	650	700
SU3018150YL□-□□□	15.0 ± 30 %	25.0	360	450	25	500	560

- 1) . □ : Packaging Information... **A** : Bulk **B** : Taping Reel
- 2) . "- □□□":Reference code
- 3) . Inductance Test Freq. : 100KHz / 0.1V
- 4) . I_{rms} base on Temp. rise 40 typ.
- 5) . I_{sat} base on L / LOA=35% typ.

@ Inductance VS. DC Current Curve :



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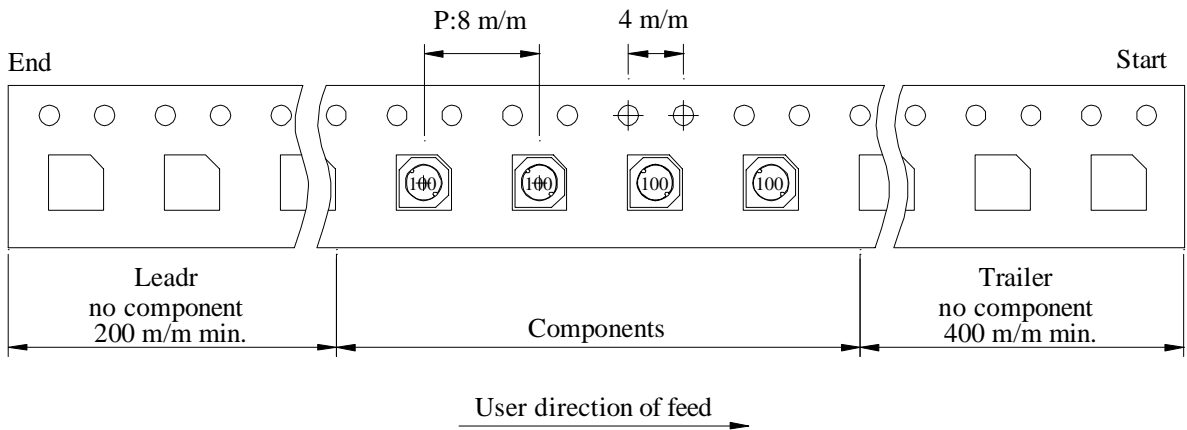
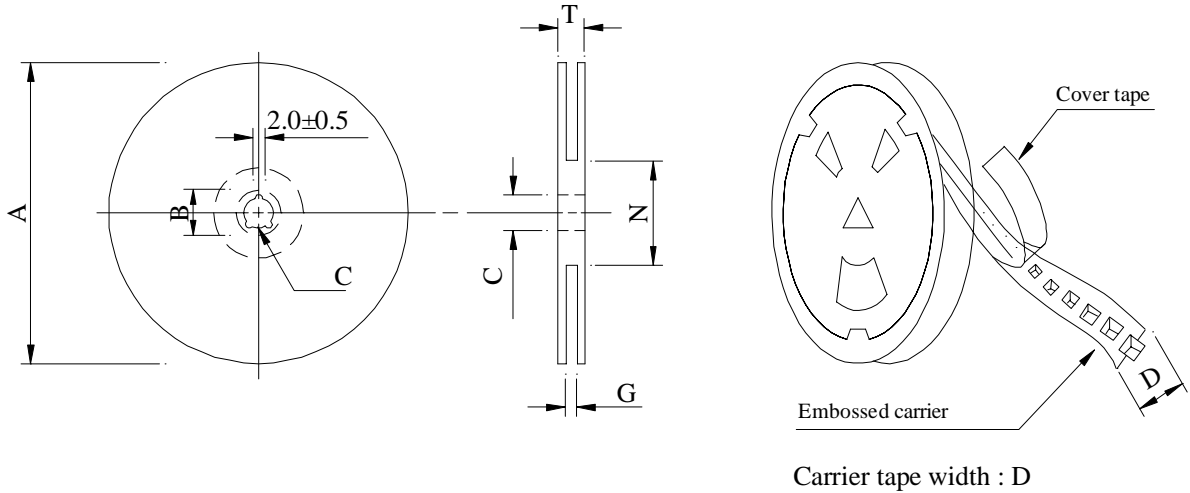
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		ABC'S ITEM NO.	

PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

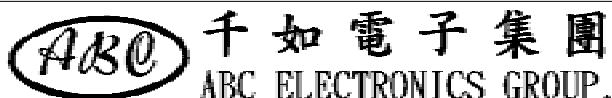
Unit:m/m

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)
SU3018	800	120	07 - 12	32000	7.50	42 x 41 x 24

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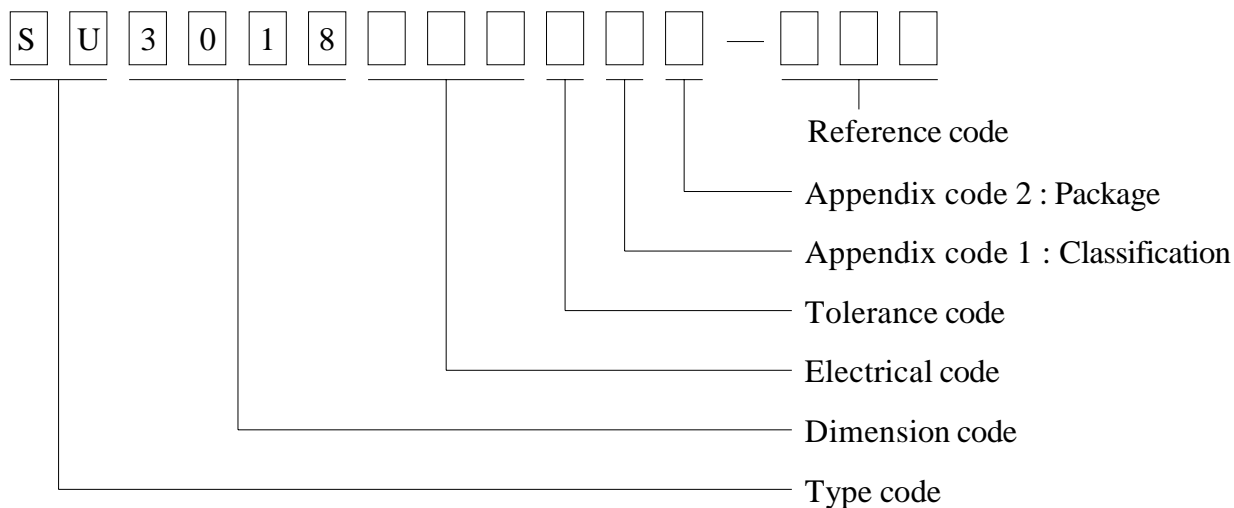
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. DWGING NUMBER EXPRESSION :



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)	800 pcs	

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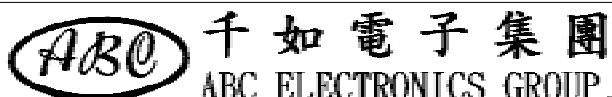
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. RELIABILITY TEST :

Test item	Specification	Test condition												
Solderability	More than 90% of the terminal electrode shall be covered With fresh solder.	Preheat : 150±25 for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5 Flux : Rosin Dip time : 4±1 seconds												
Thermal shock test (Temp. cycle)	Inductance shall not change more than ±30%	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">→</td> <td style="border: none; text-align: center;"> <table style="border: none;"> <tr> <td style="border: none;">-25±2</td> <td style="border: none;">/</td> <td style="border: none;">30 minutes</td> </tr> </table> </td> </tr> <tr> <td style="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">→</td> <td style="border: none; text-align: center;"> <table style="border: none;"> <tr> <td style="border: none;">85±2</td> <td style="border: none;">/</td> <td style="border: none;">30 minutes</td> </tr> </table> </td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	<table style="border: none;"> <tr> <td style="border: none;">-25±2</td> <td style="border: none;">/</td> <td style="border: none;">30 minutes</td> </tr> </table>	-25±2	/	30 minutes	Room temp. 15 minutes	→	<table style="border: none;"> <tr> <td style="border: none;">85±2</td> <td style="border: none;">/</td> <td style="border: none;">30 minutes</td> </tr> </table>	85±2	/	30 minutes
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85±2	/	30 minutes												
Humidity Resistance test		Temperature : 40±2 Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours												
High temp. Resistance test		Temperature : 105±2 Applied current : Per spec. Time : 500 hours												

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU3018□□□□L□-□□□
		ABC'S ITEM NO.	

UL CARD :

OBMW2 September 8, 2000

Magnet Wire-Component

JUNG SHING WIRE CO LTD E174837

231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN
HSIEN TAIWAN

Mtl Dsg	Mark Dsg	BC	Coat Typ	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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dedicated to public safety and
committed to quality service

Mtl Dsg	Mark Dsg	BC	Coat Typ	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 LZL.
LZ - Signifies magened wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signi-
fies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks 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.

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OBMW2E174837
September 8, 2000