

SPECIFICATION FOR APPROVAL

查询"SH30116R8Y2"供应商

REF :

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH3011□□□□2□-□□□
		ABC'S ITEM NO.	

· CONFIGURATION & DIMENSIONS :

Marking (White) →

A : 3.80 ±0.30 m/m
 B : 3.80 ±0.30 m/m
 C : 1.15 ±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)

· SCHEMATIC DIAGRAM :

LCR Meter

· 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

· GENERAL SPECIFICATION :

- a . Temp. rise : 40 typ.
- b . Storage temp. : -40 ----+125
- c . Operating temp. : -40 ----+105
- d . Resistance to solder heat : 260 .10 secs.

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ABC 千如電子集團
ABC ELECTRONICS GROUP.



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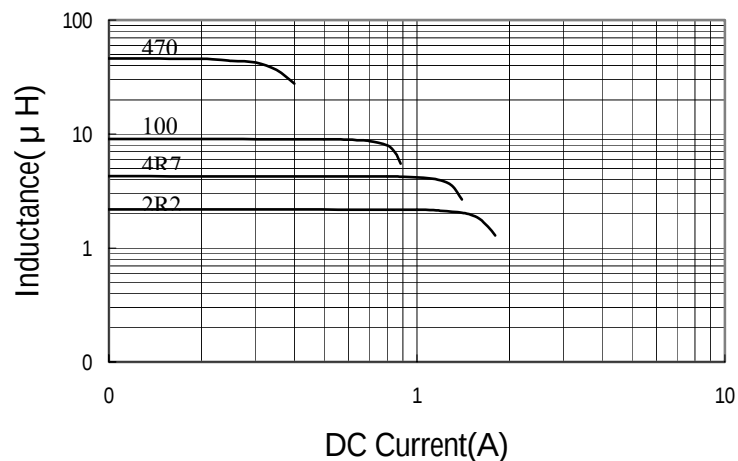
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. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC ($m\Omega$)		Irms (mA) typ.	Isat (mA) typ.
					typ.	max.		
SH30111R5Y2□-□□□	$1.5 \pm 30\%$	7	7.96	130	68	88	1900	1800
SH30112R2Y2□-□□□	$2.2 \pm 30\%$	7	7.96	120	105	135	1600	1600
SH30113R3Y2□-□□□	$3.3 \pm 30\%$	6	7.96	100	130	170	1400	1400
SH30114R7Y2□-□□□	$4.7 \pm 30\%$	7	7.96	80	185	240	1200	1150
SH30116R8Y2□-□□□	$6.8 \pm 30\%$	6	7.96	70	270	340	1000	970
SH3011100Y2□-□□□	$10.0 \pm 30\%$	6	2.52	50	415	520	800	700
SH3011150Y2□-□□□	$15.0 \pm 30\%$	6	2.52	40	720	900	650	620
SH3011220Y2□-□□□	$22.0 \pm 30\%$	6	2.52	30	1150	1450	540	500
SH3011330Y2□-□□□	$33.0 \pm 30\%$	6	2.52	25	1550	1900	440	380
SH3011470Y2□-□□□	$47.0 \pm 30\%$	4	2.52	20	2400	2750	350	300

- 1) . □ : Packaging Information... **A** : Bulk **B** : Taping Reel
- 2) ."-□□□":Reference code
- 3) . Inductance Test Freq. : 100KHz / 0.1V
- 4) . Isat base on $L / L_0A=35\%$ typ.
- 5) . Irms base on Temp. rise 40 typ.

Inductance VS. DC Current curve



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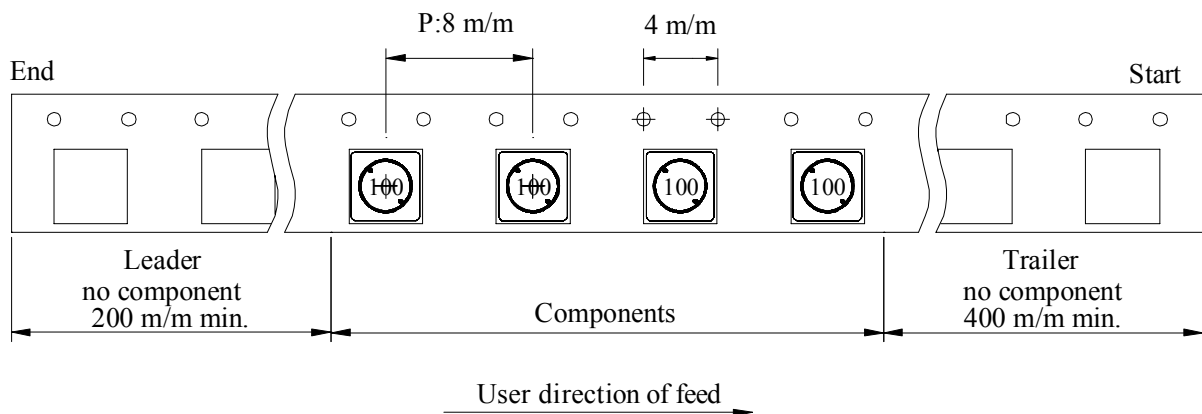
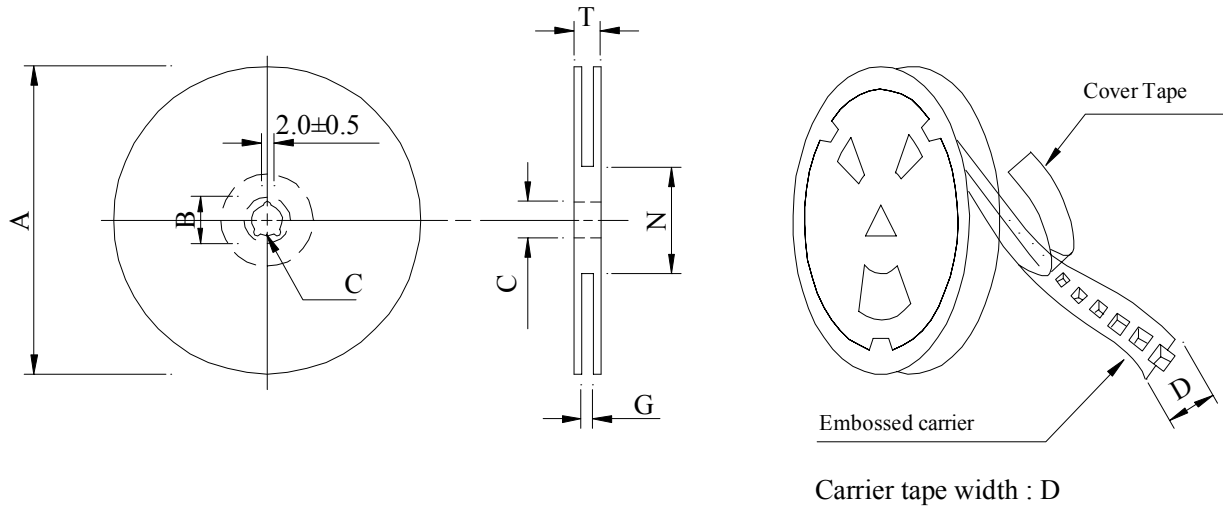
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PACKAGING INFORMATION :

(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)
SH3011	1,200	108	07 - 12	48,000	5.3	42 x 41 x 24

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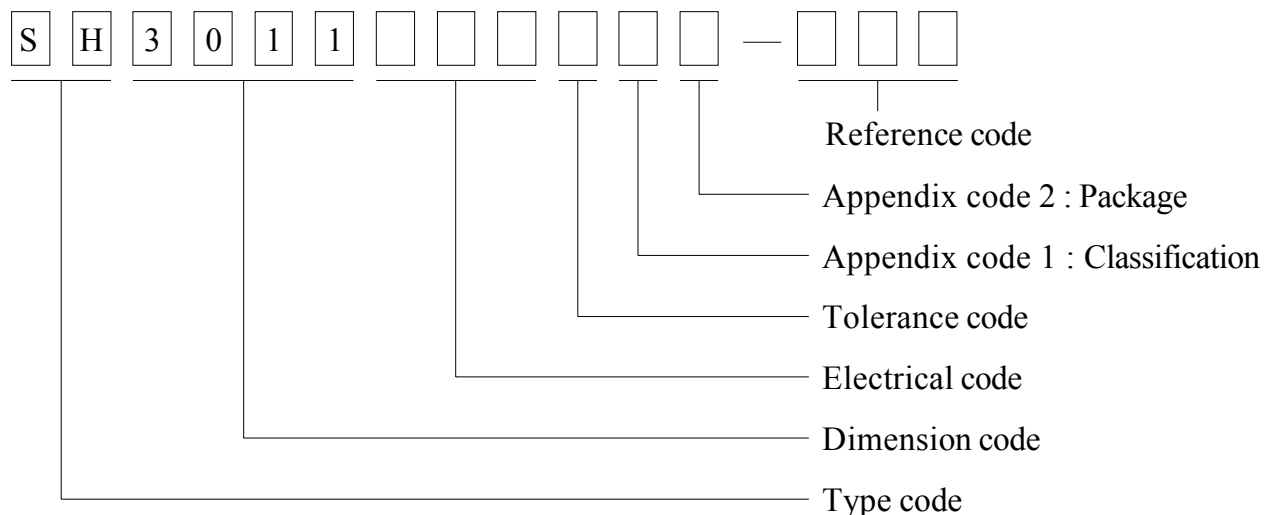
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. DWGING NUMBER EXPRESSION :



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)	1,200 pcs	

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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 ±20%	<table border="0"> <tr> <td>Room temp. 15 minutes</td> <td>→</td> <td>-25±2 30 minutes</td> </tr> <tr> <td>Room temp. 15 minutes</td> <td>→</td> <td>85±2 30 minutes</td> </tr> </table> Total : 50 cycles	Room temp. 15 minutes	→	-25±2 30 minutes	Room temp. 15 minutes	→	85±2 30 minutes
Room temp. 15 minutes	→	-25±2 30 minutes						
Room temp. 15 minutes	→	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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. 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	OC	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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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 magnd wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks JSW 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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September 8, 2000



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