

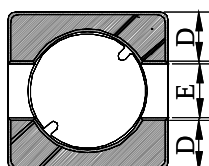
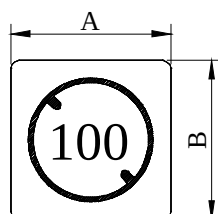
SPECIFICATION FOR APPROVAL

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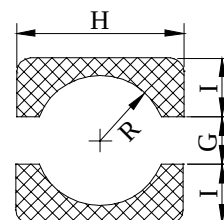
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH4022□□□□L□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

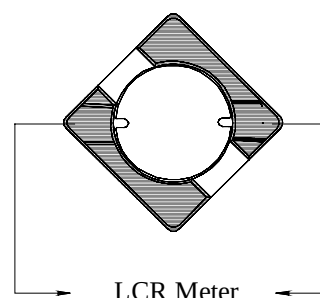


A	: 4.80±0.3	m/m
B	: 4.80±0.3	m/m
C	: 2.20±0.2	m/m
D	: 1.60 typ.	m/m
E	: 1.60 typ.	m/m
G	: 1.50 ref.	m/m
H	: 5.30 ref.	m/m
I	: 2.00 ref.	m/m
R	: 1.80 ref.	m/m



(PCB Pattern suggestion)

II . SCHEMATIC DIAGRAM :

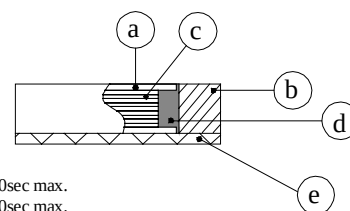


III . MATERIALS :

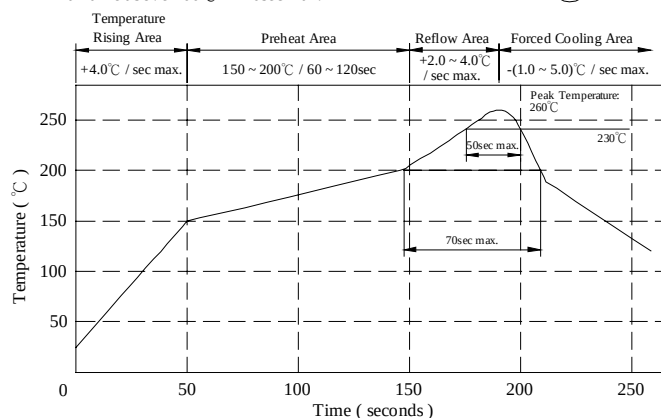
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (Class F)
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/Sn
- f . Remark : Lead content 200ppm max.
include ferrite

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.



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 (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (m Ω)		Irms (mA) typ.	Isat (mA) typ.
					typ.	max.		
SH40221R5YL□	1.5 $\pm$ 30%	8.0	7.960	100.0	13.5	20.0	3500	1800
SH40222R2YL□	2.2 $\pm$ 30%	8.0	7.960	70.0	16.5	25.0	3300	1600
SH40223R3YL□	3.3 $\pm$ 30%	8.0	7.960	60.0	24.0	36.0	3000	1400
SH40224R7YL□	4.7 $\pm$ 30%	8.0	7.960	50.0	37.0	55.0	2200	1100
SH40226R8YL□	6.8 $\pm$ 30%	9.0	7.960	35.0	50.0	70.0	2000	950
SH4022100YL□	10.0 $\pm$ 30%	9.0	2.520	30.0	65.0	85.0	1700	800
SH4022150YL□	15.0 $\pm$ 30%	22.0	2.520	20.0	98.0	130.0	1300	680
SH4022220YL□	22.0 $\pm$ 30%	15.0	2.520	18.0	138.0	180.0	1100	530
SH4022330YL□	33.0 $\pm$ 30%	15.0	2.520	15.0	217.0	280.0	800	420
SH4022470YL□	47.0 $\pm$ 30%	13.0	2.520	12.0	269.0	350.0	700	350
SH4022680YL□	68.0 $\pm$ 30%	13.0	2.520	11.0	409.0	520.0	600	300
SH4022101YL□	100.0 $\pm$ 30%	20.0	0.796	9.0	513.0	650.0	550	240
SH4022121YL□	120.0 $\pm$ 30%	30.0	0.796	9.0	585.0	730.0	520	210
SH4022151YL□	150.0 $\pm$ 30%	40.0	0.796	8.0	738.0	930.0	450	180

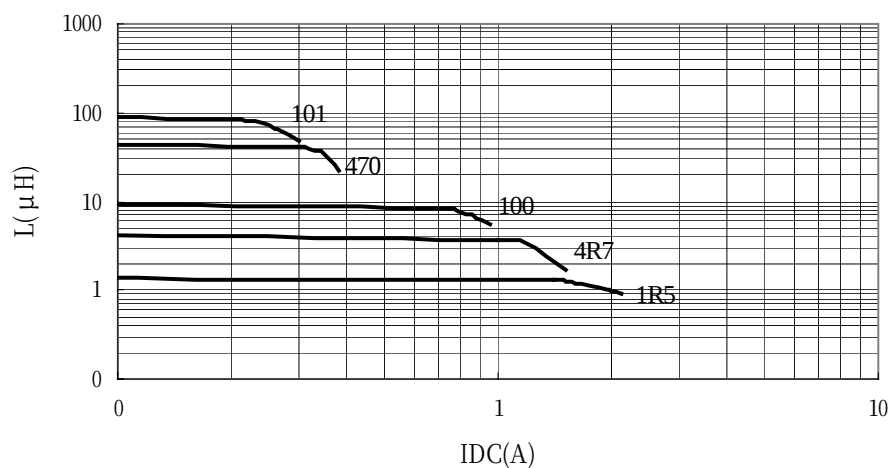
1). □: Packaging Information... [A]: Bulk [B]: Taping Reel

2). Inductance Test Freq. : 100KHz /0.1V

3). Irms base on Temp. rise 20°C typ.

4). Isat base on $\Delta L/L0A=35\%$ typ.

Inductance VS. IDC



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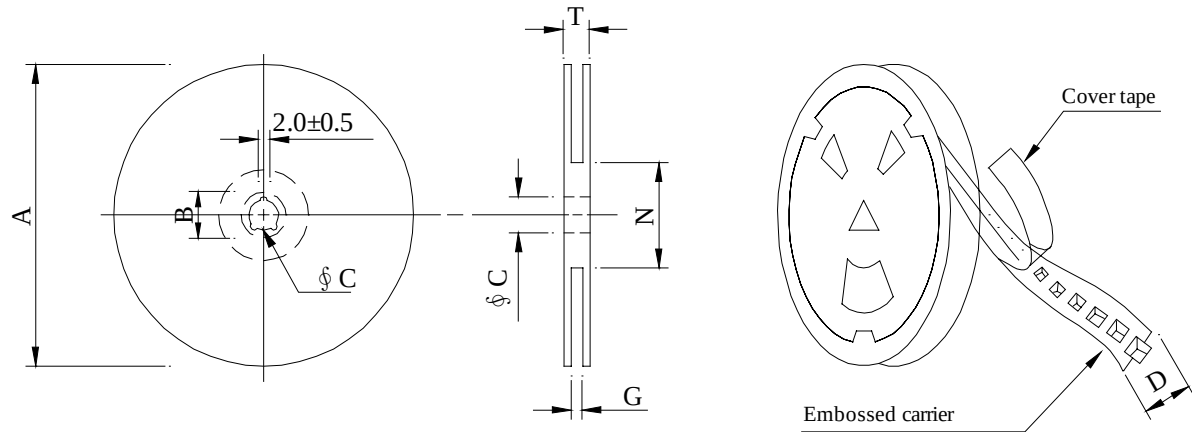
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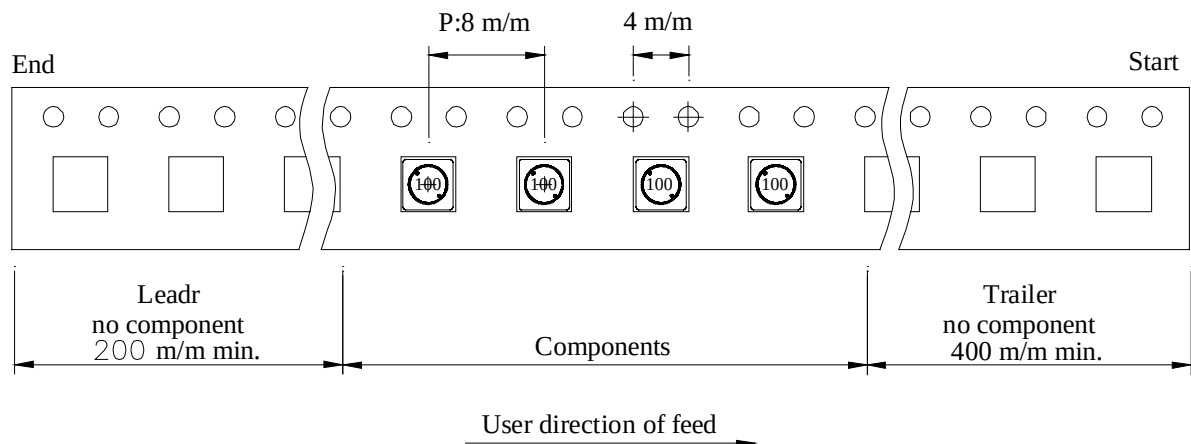
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VI . PACKAGING INFORMATION :

(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)
SH4022	800	135	07 - 12	32,000	8.20	42 x 41 x 24

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 ABC ELECTRONICS GROUP.

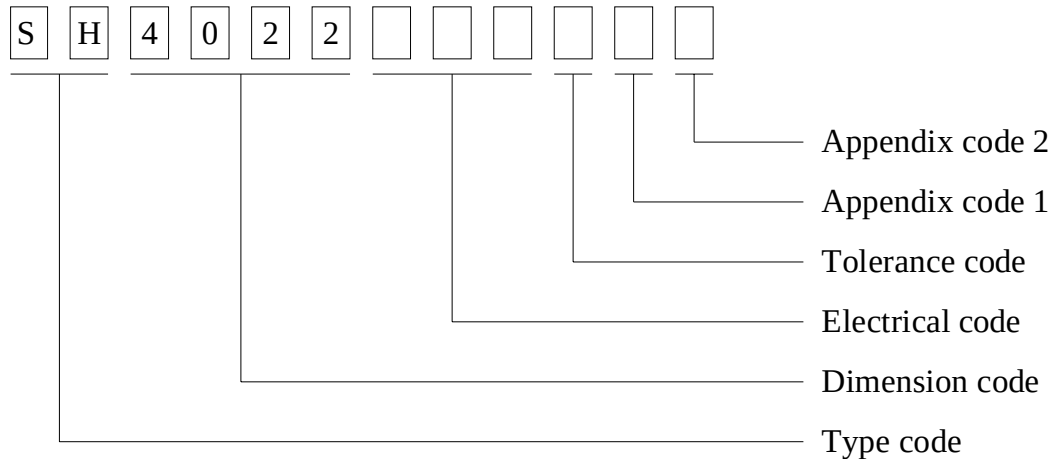
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VII . DWG EXPRESSION :



Appendix code 1 : S : Standard products

A~K , M~R , T~Z : Special products

L : Standard Lead Free products

1 ~ 9 : Special Lead Free products

Appendix code 2 :

Code	Inner package	Inner package Q'TY	Remark
A	Empty	Empty	
B	T / R (Reel package)	800 pcs	

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VIII . RELIABILITY TEST :

Test item	Specification	Test condition
Solderability	More than 90% of the terminal electrode Shall be covered With fresh solder.	Preheat : $150\pm 25^{\circ}\text{C}$ for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : $235\pm 5^{\circ}\text{C}$ Flux : Rosin Dip time : 4 ± 1 seconds
Thermal shock test (Temp. cycle)	Inductance shall not change more than $\pm 30\%$	Room temp. $\longrightarrow$ $-25\pm 2^{\circ}\text{C}$ 15 minutes 30 minutes Room temp. $\longrightarrow$ $85\pm 2^{\circ}\text{C}$ 15 minutes 30 minutes Total : 50 cycles
Humidity Resistance test		Temperature : $40\pm 2^{\circ}\text{C}$ Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours
High temp. Resistance test		Temperature : $105\pm 2^{\circ}\text{C}$ Applied current : Per spec. Time : 500 hours

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IX . 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	OC	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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committed to quality service

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	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 LZI.
LZ - Signifies magnet 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 聚晶電子, 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

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