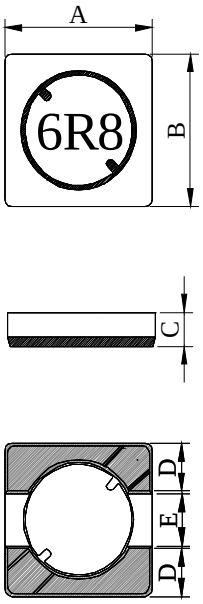
SPECIFICATION FOR APPROVAL

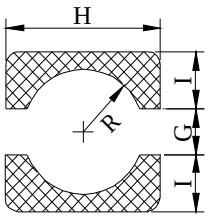
REF : 20090506-B

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH4028□□□□L□-□□□
		ABC'S ITEM NO.	

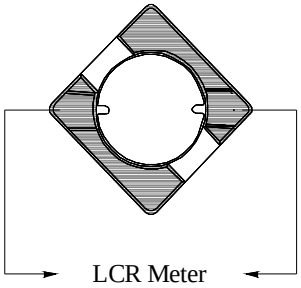
Ⅰ．CONFIGURATION & DIMENSIONS：



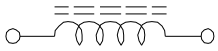
A ： 4.80±0.2 m/m
B ： 4.80±0.2 m/m
C ： 2.80±0.2 m/m
D ： 1.60 typ. m/m
E ： 1.60 typ. m/m
G ： 1.50 ref. m/m
H ： 5.30 ref. m/m
I ： 2.00 ref. m/m
R ： 1.80 ref. m/m



(PCB Pattern suggestion)

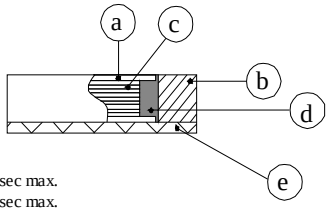


Ⅱ．SCHEMATIC DIAGRAM：

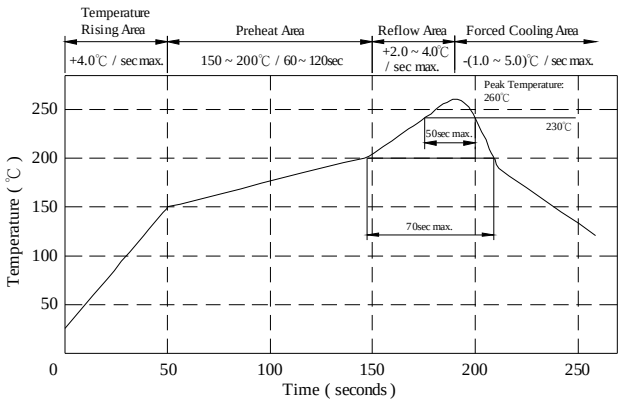


Ⅲ．MATERIALS：

a．Core：Ferrite DR core
b．Core：Ferrite RI core
c．Wire ：Enamelled copper wire (Class F & H)
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.



Ⅳ．GENERAL SPECIFICATION：

a．Temp. rise ：30℃ max.
b．Storage temp.：-40℃ ----+125℃
c．Operating temp.：-40℃----+105℃
d．Resistance to solder heat：260℃.10 secs.

千如電子集團
ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH4028□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅴ . ELECTRICAL CHARACTERISTICS：

DWG No.	Inductance (μH)	SRF (MHz) typ.	RDC (mΩ) typ.	RDC (mΩ) max.	Irms (mA) max.	Isat (mA) typ.
SH40281R2YL□ -□□□	1.2 ±30%	143.0	13.0	20.0	3100	2560
SH40281R8YL□ -□□□	1.8 ±30%	117.0	16.0	25.0	2700	2200
SH40282R2YL□ -□□□	2.2 ±30%	90.0	20.0	28.0	2500	2050
SH40282R7YL□ -□□□	2.7 ±30%	88.0	22.0	30.0	2350	1800
SH40283R3YL□ -□□□	3.3 ±30%	77.0	26.0	35.0	2150	1650
SH40283R9YL□ -□□□	3.9 ±30%	79.0	42.0	60.0	1720	1500
SH40284R7YL□ -□□□	4.7 ±30%	42.0	47.0	70.0	1550	1300
SH40285R6YL□ -□□□	5.6 ±30%	68.0	65.0	85.0	1380	1200
SH40286R8YL□ -□□□	6.8 ±30%	58.0	70.0	90.0	1300	1150
SH40288R2YL□ -□□□	8.2 ±30%	45.0	76.0	100.0	1250	1050
SH4028100YL□ -□□□	10.0 ±30%	30.0	86.0	110.0	1190	1000
SH4028120YL□ -□□□	12.0 ±30%	29.0	95.0	125.0	1120	850
SH4028150YL□ -□□□	15.0 ±30%	30.0	115.0	150.0	1030	780
SH4028180YL□ -□□□	18.0 ±30%	27.0	128.0	160.0	980	750
SH4028220YL□ -□□□	22.0 ±30%	23.0	144.0	185.0	925	720
SH4028270YL□ -□□□	27.0 ±30%	18.0	156.0	200.0	890	600
SH4028330YL□ -□□□	33.0 ±30%	16.0	183.0	230.0	820	580
SH4028390YL□ -□□□	39.0 ±30%	20.0	196.0	250.0	795	500
SH4028470YL□ -□□□	47.0 ±30%	10.0	218.0	280.0	750	480
SH4028560YL□ -□□□	56.0 ±30%	11.0	250.0	320.0	700	410
SH4028680YL□ -□□□	68.0 ±30%	13.0	310.0	400.0	630	360
SH4028820YL□ -□□□	82.0 ±30%	9.8	395.0	520.0	560	320
SH4028101YL□ -□□□	100.0 ±30%	10.0	476.0	600.0	510	300
SH4028121YL□ -□□□	120.0 ±30%	8.8	555.0	700.0	470	280
SH4028151YL□ -□□□	150.0 ±30%	6.8	685.0	860.0	420	260
SH4028181YL□ -□□□	180.0 ±30%	6.7	778.0	1000.0	390	230
SH4028221YL□ -□□□	220.0 ±30%	6.1	1008.0	1250.0	340	200
SH4028271YL□ -□□□	270.0 ±30%	4.3	1192.0	1500.0	320	180
SH4028331YL□ -□□□	330.0 ±30%	4.3	1338.0	1700.0	300	170
SH4028391YL□ -□□□	390.0 ±30%	3.9	1798.0	2200.0	260	160
SH4028471YL□ -□□□	470.0 ±30%	2.9	2128.0	2600.0	240	155
SH4028561YL□ -□□□	560.0 ±30%	3.0	2478.0	3000.0	220	150

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

2)."-□□□":Reference code

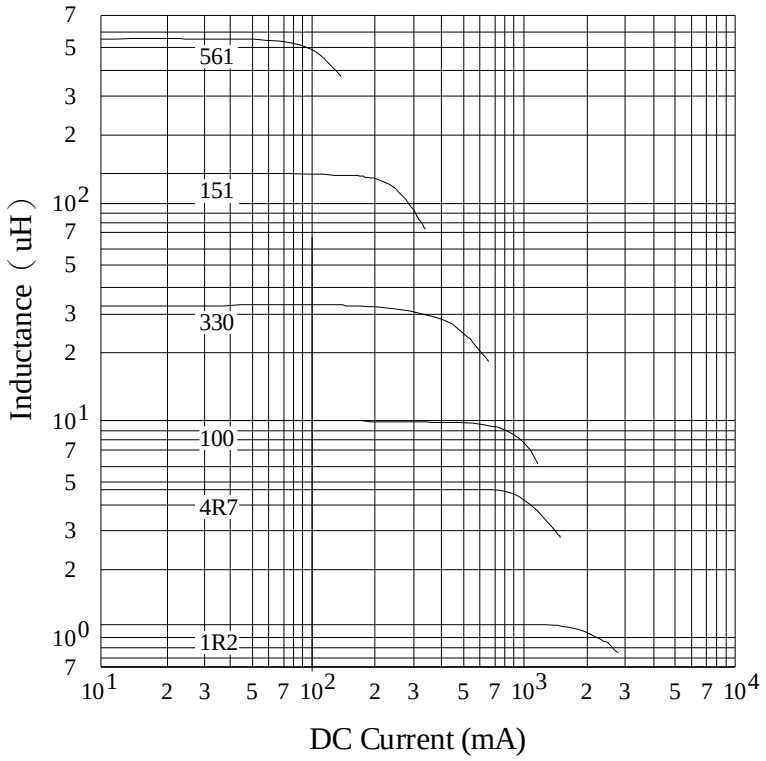
3). Inductance Test Freq. ：100KHz /0.1V

4). Irms base on Temp. rise 30℃ max.

5). Isat base on △L/L0A＝35% typ.

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH4028□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅵ．INDUCTANCE VS. DC CURRENT CURVE：



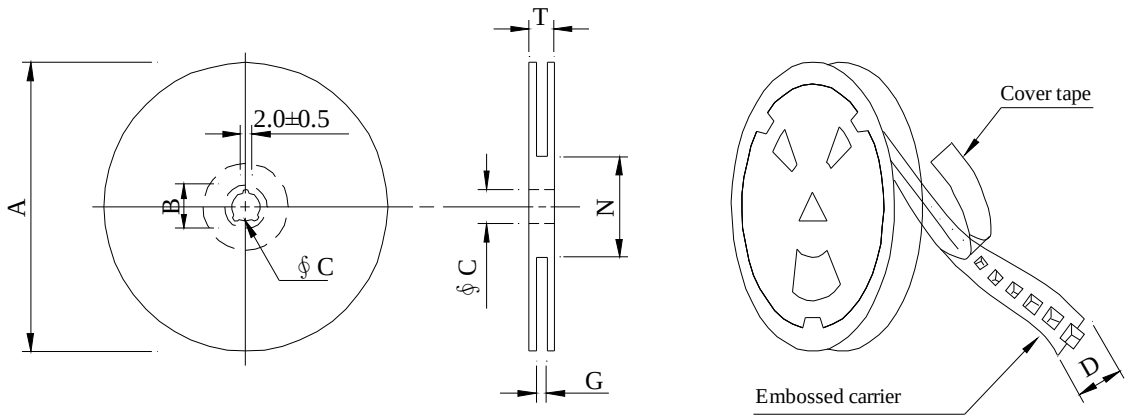
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SPECIFICATION FOR APPROVAL

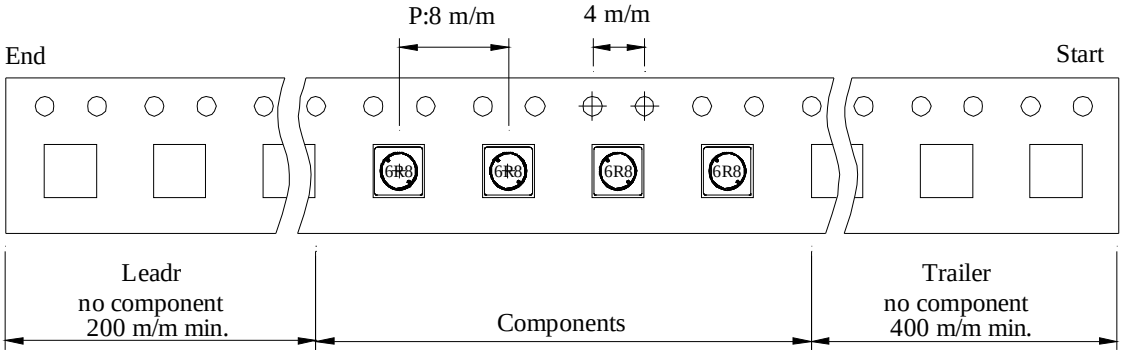
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH4028□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅶ．PACKAGING INFORMATION：

(1) Configuration



※Carrier tape width : D



User direction of feed

(2) Dimensions

Unit:m/m

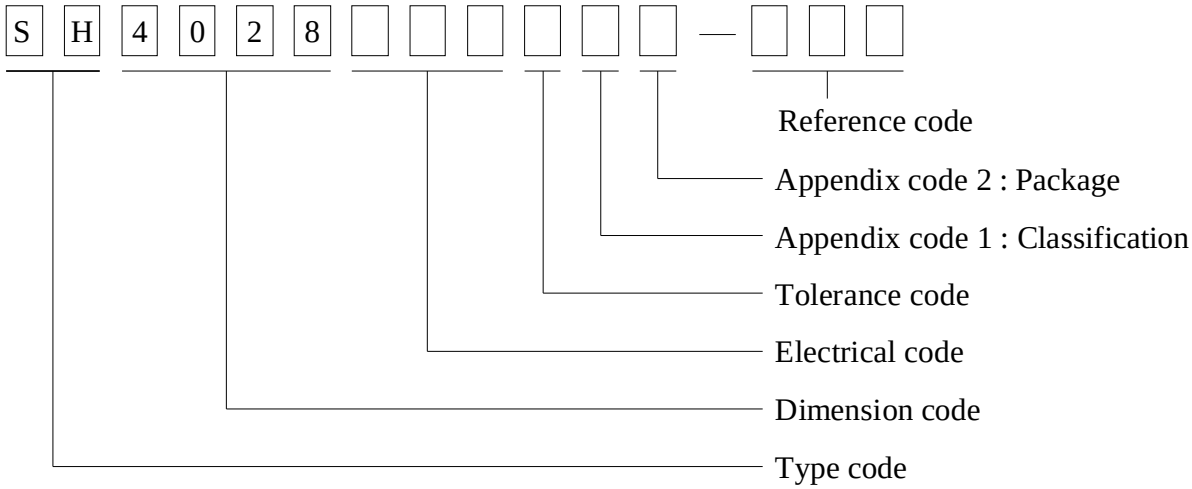
Sytle	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14^{+0}	50^{-0}	16.5
13 - 12	330	21±0.8	13±0.5	12	14^{+0}	50^{-0}	18.4

(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)
SH4028	500	220	07 - 12	20,000	6.50	42 x 41 x 24
SH4028	2,000	880	13 - 12	16,000	5.30	40 x 40 x 24

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH4028□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅷ．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)	500 pcs	
C	T / R (Reel package)	2000 pcs	

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH4028□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅸ . RELIABILITY TEST :

Test item	Specification	Test condition
Solderability	More than 95% of the terminal electrode Shall be covered With fresh solder.	Preheat : 155℃ / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5℃ Flux : Rosin Dip time : 5±0.5 seconds
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	Room temp. / 15 minutes → -40 ℃ / 30 minutes Room temp. / 15 minutes → +105 ℃ / 30 minutes Total : 50 cycles
Humidity test		Temperature : 40±2℃ Humidity : 90±5% Time : 1000 hours
High temp. Resistance test		Temperature : 105±5℃ Applied current : Per spec. Time : 96 hours

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH4028□□□□L□-□□□
		ABC'S ITEM NO.	

X . 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	Coat Typ 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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A not-for-profit organization dedicated to public safety and committed to quality service

Mtl Dsg	Mark Dsg	Coat Typ 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 magned 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