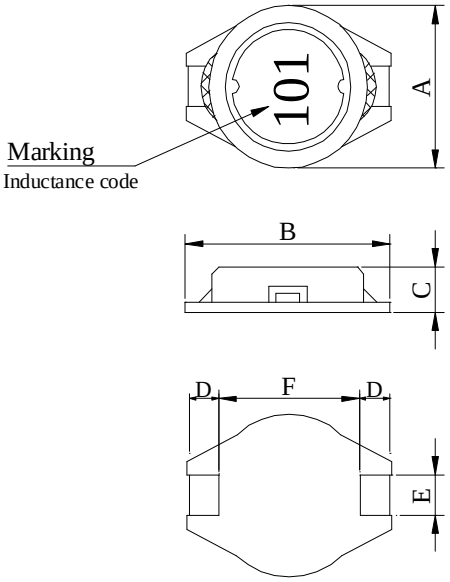
SPECIFICATION FOR APPROVAL

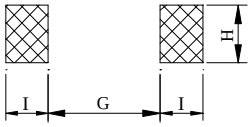
REF : 20090626-A

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS1003□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅰ．CONFIGURATION & DIMENSIONS：

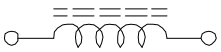


A	:	10.1±0.3	m/m
B	:	12.7±0.3	m/m
C	:	2.70±0.3	m/m
D	:	2.40±0.2	m/m
E	:	2.20 ref.	m/m
F	:	7.60±0.3	m/m
G	:	7.30 ref.	m/m
H	:	2.80 ref.	m/m
I	:	3.00 ref.	m/m



(PCB Pattern)

Ⅱ．SCHEMATIC DIAGRAM：



Ⅲ．MATERIALS：

a．Core：Ferrite DR core

b．Core：Ferrite RI core

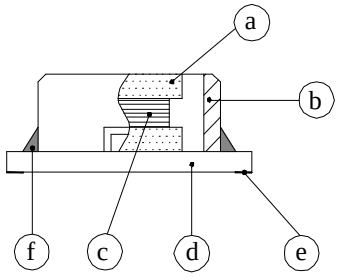
c．Wire ：Enamelled copper wire （class F）

d．Base：LCP E4008

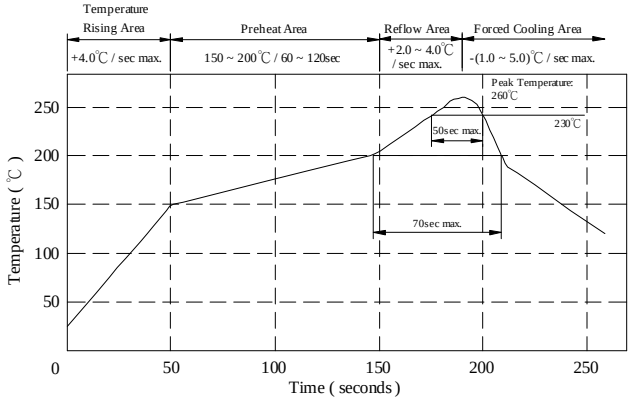
e．Terminal： Cu/Ni/Sn

f．Adhesive：Epoxy resin

g．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 ：40℃ max.

b．Rated current：Base on temp. rise & △L / L0A=10% max.

c．Storage temp.：-40℃ ----+125℃

d．Operating temp.：-40℃----+105℃

e．Resistance to solder heat：260℃.10 secs.

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SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS1003□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅴ．ELECTRICAL CHARACTERISTICS：

DWG No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		RDC (Ω) max	Irms (A) △T=40℃ max	Isat (A) △L/L0A=10% max
			L	Q			
SS10031R8ML□-□□□	1.8±20%	10	1K	7.96 M	0.038	3.00	3.60
SS10032R2ML□-□□□	2.2±20%	11	1K	7.96 M	0.045	2.76	3.40
SS10033R0ML□-□□□	3.0±20%	11	1K	7.96 M	0.062	2.20	2.60
SS10033R9ML□-□□□	3.9±20%	10	1K	7.96 M	0.070	2.10	2.40
SS10034R7ML□-□□□	4.7±20%	10	1K	7.96 M	0.078	1.90	2.30
SS10037R5ML□-□□□	7.5±20%	10	1K	7.96 M	0.100	1.44	1.70
SS1003100ML□-□□□	10.0±20%	18	1K	2.52 M	0.145	1.24	1.50
SS1003120ML□-□□□	12.0±20%	20	1K	2.52 M	0.185	1.10	1.30
SS1003150ML□-□□□	15.0±20%	20	1K	2.52 M	0.200	1.02	1.20
SS1003180ML□-□□□	18.0±20%	20	1K	2.52 M	0.270	0.90	1.10
SS1003220ML□-□□□	22.0±20%	17	1K	2.52 M	0.300	0.80	1.00
SS1003270ML□-□□□	27.0±20%	17	1K	2.52 M	0.400	0.75	0.90
SS1003330ML□-□□□	33.0±20%	17	1K	2.52 M	0.450	0.70	0.85
SS1003390ML□-□□□	39.0±20%	18	1K	2.52 M	0.560	0.65	0.80
SS1003470ML□-□□□	47.0±20%	18	1K	2.52 M	0.650	0.60	0.72
SS1003560ML□-□□□	56.0±20%	15	1K	2.52 M	0.680	0.52	0.65
SS1003680ML□-□□□	68.0±20%	15	1K	2.52 M	0.800	0.48	0.58
SS1003820ML□-□□□	82.0±20%	20	1K	2.52 M	1.200	0.42	0.52
SS1003101ML□-□□□	100.0±20%	23	1K	0.796M	1.400	0.40	0.48
SS1003121ML□-□□□	120.0±20%	22	1K	0.796M	1.520	0.35	0.44
SS1003151ML□-□□□	150.0±20%	23	1K	0.796M	1.800	0.32	0.40
SS1003181ML□-□□□	180.0±20%	20	1K	0.796M	2.200	0.28	0.35
SS1003221ML□-□□□	220.0±20%	20	1K	0.796M	2.200	0.26	0.32
SS1003271YL□-□□□	270.0±15%	26	1K	0.796M	3.100	0.22	0.28
SS1003331YL□-□□□	330.0±15%	26	1K	0.796M	3.600	0.20	0.26
SS1003391YL□-□□□	390.0±15%	28	1K	0.796M	4.600	0.18	0.22
SS1003471YL□-□□□	470.0±15%	28	1K	0.796M	5.100	0.16	0.20

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

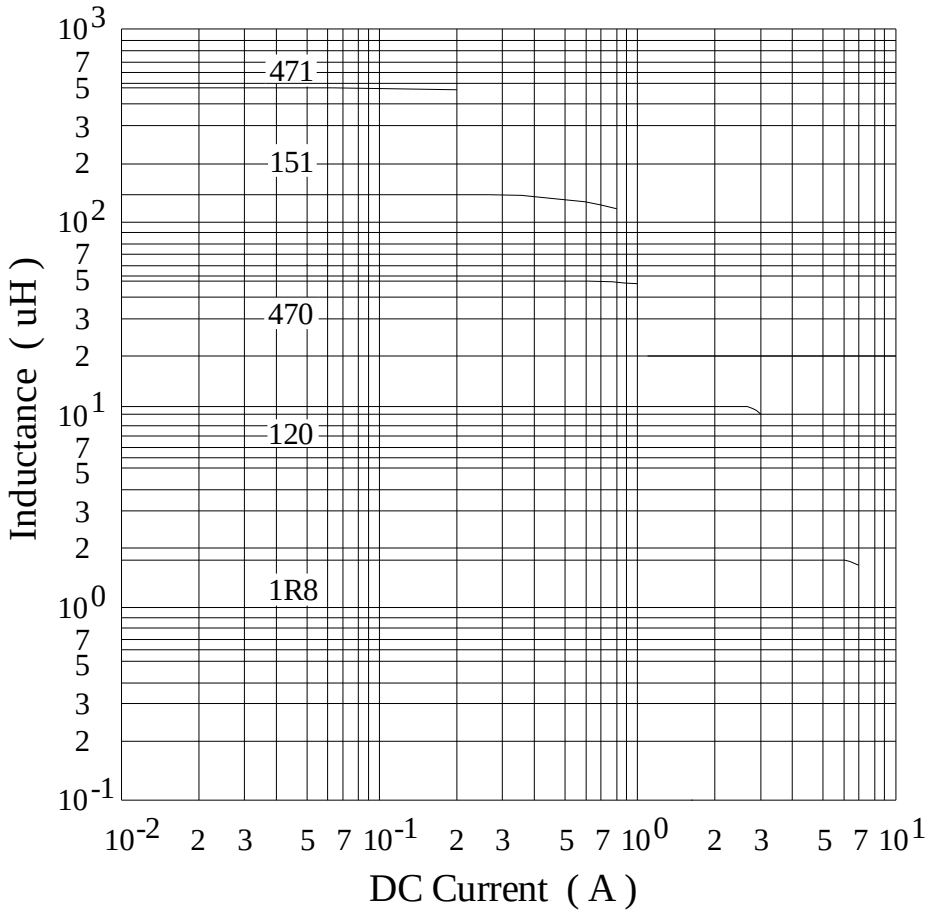
2)."-□□□":Reference code

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SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS1003□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅵ．INDUCTANCE VS. DC CURRENT CURVE：



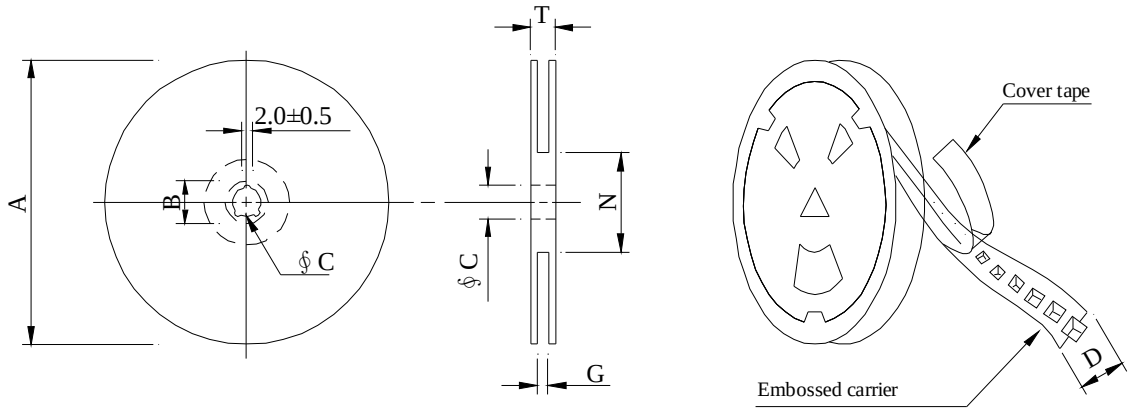
SPECIFICATION FOR APPROVAL

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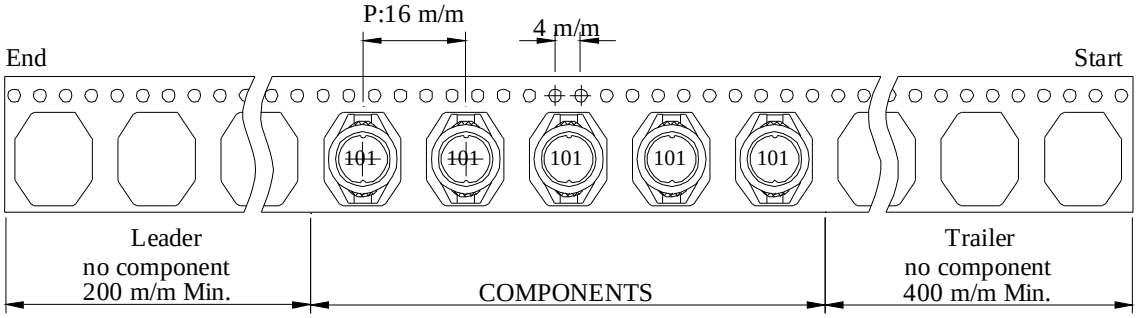
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS1003□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅶ . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



User direction of feed

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13	24	26^{+0}	50^{-0}	30.4

(3) Q'TY & G.W. Per package

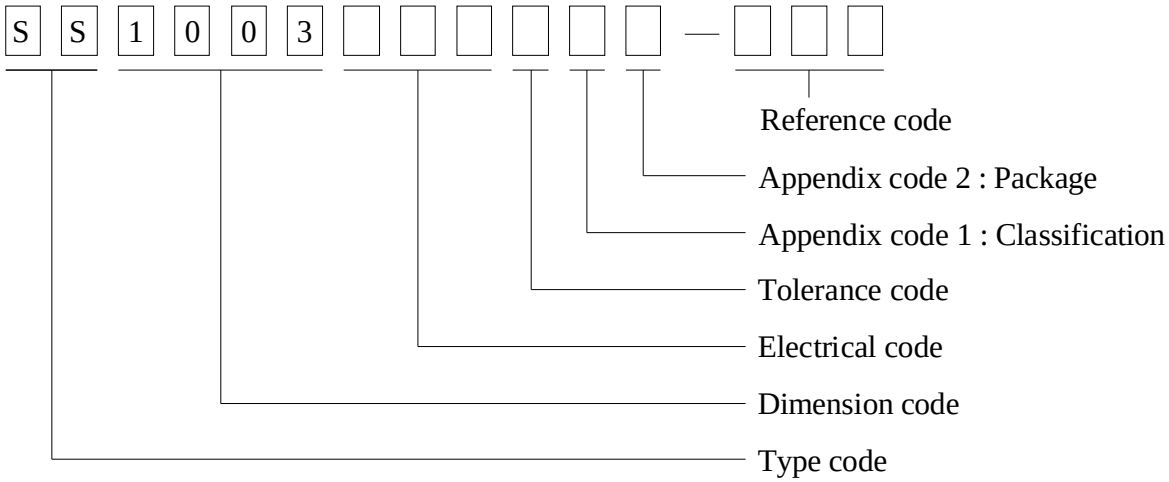
Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
SS1003	1,000	1,000	13 - 24	4,000	6.2	40 x 40 x 24

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SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS1003□□□□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)	1000 pcs	

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS1003□□□□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.	SS1003□□□□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

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SS1003□□□□L□-□□□
		ABC'S ITEM NO.	

SUMITOMO CHEMICAL CO LTD E54705 (M)
5-33 KITAHAMA 4-CHOME CHUO-KO, OSAKA JAPAN

Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI Mech with Imp	RTI Mech w/o Imp	HWI	HAI	HVTR	D495	CTI
Liquid crystal plyester (LCP), designated "EKONOL" or "SUMIKASUPER", furnished in the form of pellets, (Contd)											
E4008 , E400X	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4
E4008	NC , WT , BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	220	180	220	3	4	—	—	—
		1.5	94V-0	220	200	240	2	4	—	—	—
		3.0	94V-0	220	200	240	1	4	0	5	4
E4010	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	220	180	220	3	4	—	—	—
		1.5	94V-0	220	200	240	2	4	—	—	—
		3.0	94V-0	220	200	240	1	4	0	5	4
E400(Y)L , E4008L	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	3	4	—	—	—
		1.5	94V-0	130	130	130	2	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4
E4810	NC , BK	0.30	94V-0	130	130	130	—	—	—	—	—
		0.75	94V-0	130	130	130	0	4	—	—	—
		1.5	94V-0	130	130	130	0	4	—	—	—
		3.0	94V-0	130	130	130	1	4	0	5	4

(X) Denotes any number 1 thru 9.
(Y) Denotes any number 1 thru 7.

ABC 千如電子集團 ABC ELECTRONICS GROUP.