

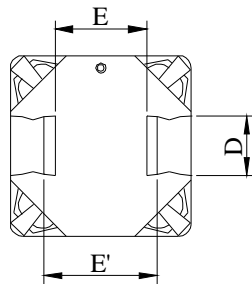
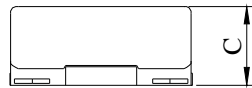
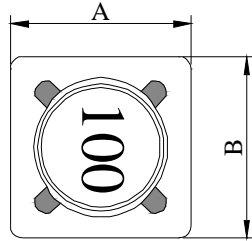
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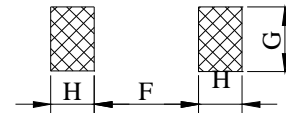
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	BS0703□□□□F□-□□□
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I . MECHANICAL DIMENSIONS :

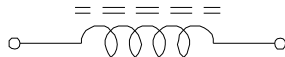


- A : 7.30±0.2 m/m
- B : 7.30±0.2 m/m
- C : 3.50±0.2 m/m
- D : 2.00 typ. m/m
- E : 4.60 typ. m/m
- E' : 4.90 typ. m/m
- F : 4.80 typ. m/m
- G : 2.40 ref m/m
- H : 1.50 ref m/m



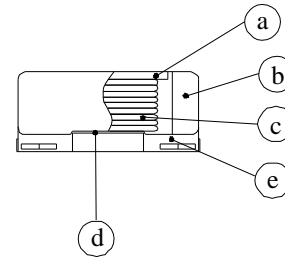
(PCB Pattern)

II . SCHEMATIC DIAGRAM :

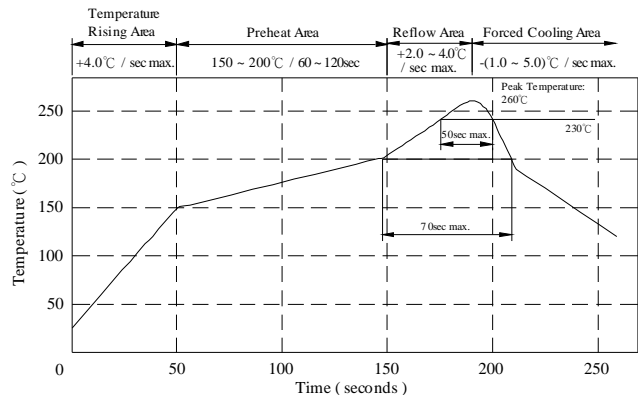


III . MATERIALS LIST :

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



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



IV . ELECTRICAL CHARACTERISTICS :

- a . Temp. rise : 40°C max.
- b . Storage temp. : -40°C ----+125°C
- c . Operating temp. : -25°C ----+105°C
- d . Resistance to solder heat : 260°C . 10 secs.

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		ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (uH)	Test Freq. (Hz) / 1V	RDC (Ω) max.	Irms (A)	Isat (A)
BS0703100MF□-□□□	10.0±20%	1K	0.072	2.10	1.85
BS0703120MF□-□□□	12.0±20%	1K	0.085	1.90	1.60
BS0703150MF□-□□□	15.0±20%	1K	0.105	1.60	1.52
BS0703180MF□-□□□	18.0±20%	1K	0.125	1.40	1.40
BS0703220MF□-□□□	22.0±20%	1K	0.160	1.20	1.28
BS0703270MF□-□□□	27.0±20%	1K	0.185	1.10	1.15
BS0703330MF□-□□□	33.0±20%	1K	0.220	1.00	1.04
BS0703390MF□-□□□	39.0±20%	1K	0.250	0.95	0.96
BS0703470MF□-□□□	47.0±20%	1K	0.320	0.85	0.88
BS0703560MF□-□□□	56.0±20%	1K	0.350	0.78	0.80
BS0703680MF□-□□□	68.0±20%	1K	0.400	0.72	0.74
BS0703820MF□-□□□	82.0±20%	1K	0.480	0.63	0.65
BS0703101MF□-□□□	100.0±20%	1K	0.630	0.54	0.60
BS0703121MF□-□□□	120.0±20%	1K	0.720	0.53	0.55
BS0703151MF□-□□□	150.0±20%	1K	0.930	0.47	0.48
BS0703181MF□-□□□	180.0±20%	1K	1.150	0.43	0.45
BS0703221MF□-□□□	220.0±20%	1K	1.320	0.40	0.42
BS0703271MF□-□□□	270.0±20%	1K	1.700	0.30	0.37
BS0703331MF□-□□□	330.0±20%	1K	2.000	0.33	0.33
BS0703391MF□-□□□	390.0±20%	1K	2.300	0.30	0.30
BS0703471MF□-□□□	470.0±20%	1K	2.800	0.26	0.27
BS0703561MF□-□□□	560.0±20%	1K	3.500	0.23	0.25
BS0703681MF□-□□□	680.0±20%	1K	4.000	0.21	0.22
BS0703821MF□-□□□	820.0±20%	1K	5.200	0.19	0.21
BS0703102MF□-□□□	1000.0±20%	1K	5.800	0.17	0.18

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

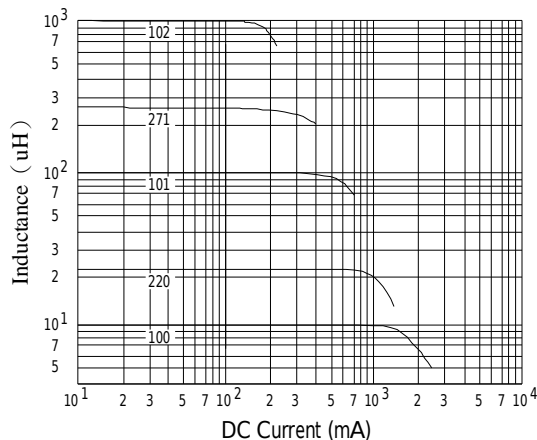
2). "-□□□" : Reference code

3). L Test Freq. : 1KHz / 1V

4). Irms base on Temp. rise 40°C max.

5). Isat base on ΔL/LOA=25% max.

@ Inductance VS. DC Current Curve



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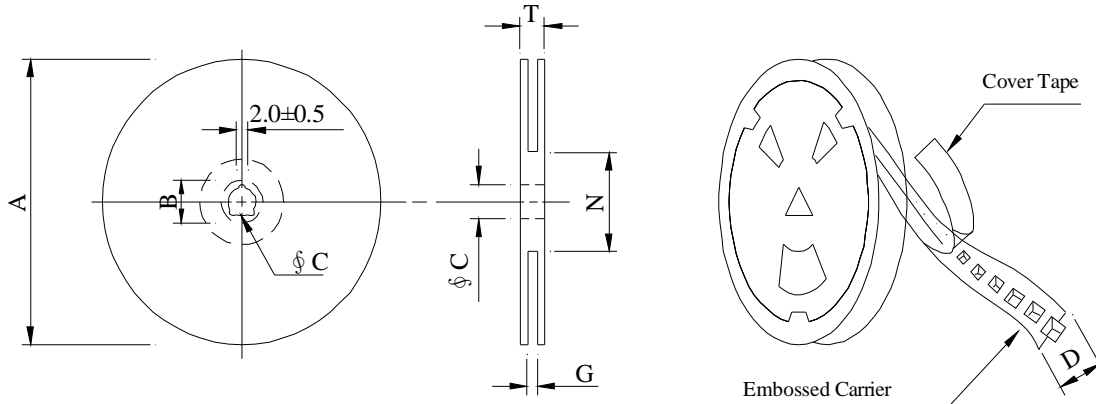
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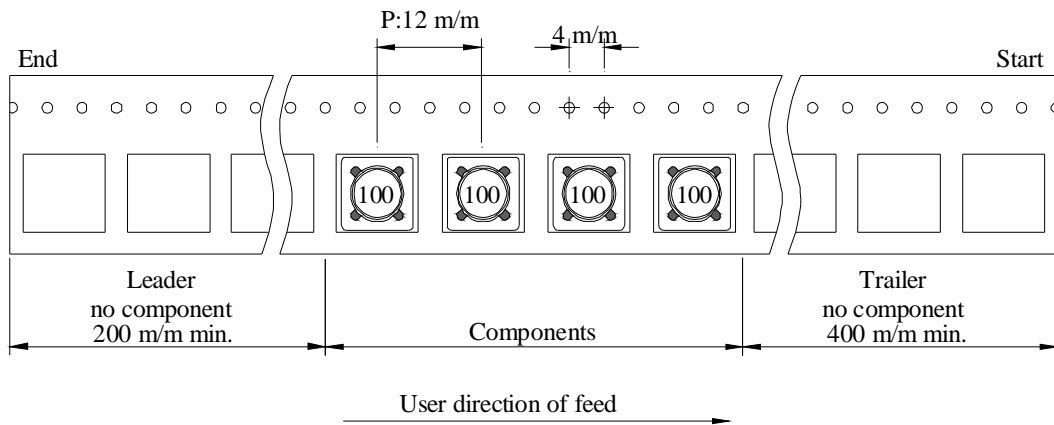
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VI . PACKAGING INFORMATION :

(1) Configuration



※Carrier Tape Width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 ⁺⁰	50 ⁻⁰	22.4

(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)
BS0703-F	1,500	1,250	13 - 16	9,000	17.0	40 x 40 x 24

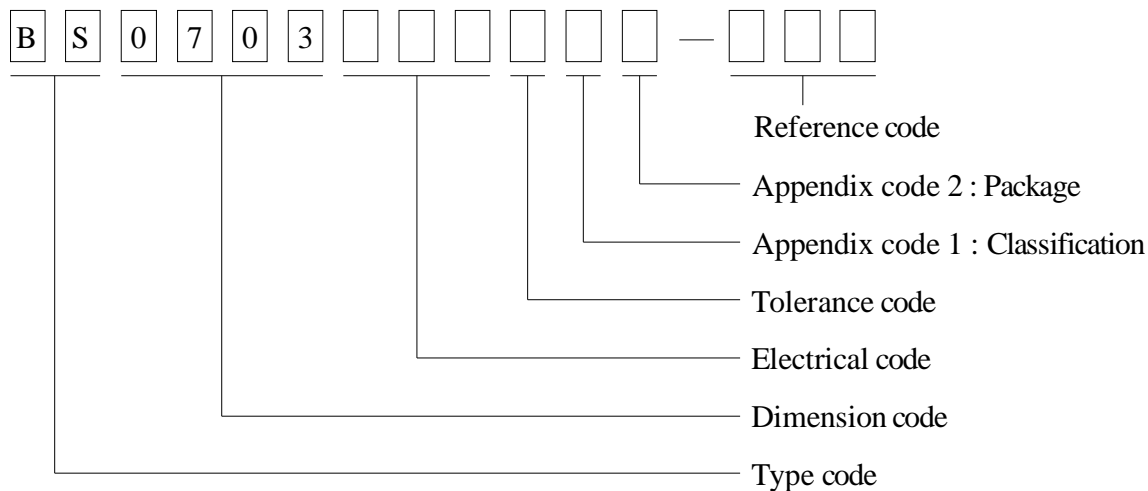
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VII . DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

- F : 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 QTY	Remark
A	T.B.D.	T.B.D.	
B	T / R (Reel package)	1500 pcs	

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VIII . RELIABILITY TEST :

Test item	Specification	Test condition						
Solderability	More than 95% of the terminal electrode shall be covered With fresh solder.	Preheat : 155°C / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 5±0.5 seconds						
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">-25 °C 30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">+105 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-25 °C 30 minutes	Room temp. 15 minutes	→	+105 °C 30 minutes
Room temp. 15 minutes		→	-25 °C 30 minutes					
Room temp. 15 minutes		→	+105 °C 30 minutes					
Humidity Test		Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours						
High temp. Resistance test	Temperature : 105±5°C Applied current : Per spec. Time : 96 hours							

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IX . UL CARD :

OBMW2		October 06, 2005			
Magnet Wire-Component					
ELEKTRISOLA (MALAYSLA) SDN BHD					E143312
JALAN DAMAI SATU JANDA BAIK 28750 BENTONG, PAHANG DARUL MAKMUR MALAYSIA					
Mtl Dsg	Mark Dsg	Coating Type		ANSI Typ	Temp Class
		BC	OC		
Estersol 180	E180	Polyesterimide (solderable)	—	MW-77	180
Amldester 200	A200	Polyesterimide	—	MW-74	200
Polysol-N 155	PN155	Polyurethane	Nylon	MW-80, MW-28	155, 130
Polysol 155	P155, G155	Polyurethane	—	MW-79, MW-75	155, 130
Polysol 155g	Pg155	Polyurethane	—	MW-75	130
Polysol 155p	Pp155,Gp155	Polyurethane	—	MW-79	155
Polysol 160	P160	Polyurethane	—	MW-79	155
Polysol 180	P180,G180	Polyurethane	—	MW-82 MW-79	180 155
Polysol 170	P170 or G170	Polyurethane	—	MW-79	155
Polysol-N 180	PN180	Polyurethane	Nylon	MW-83	180
Polysol P155p	P155p	Polyurethane	—	MW-79	155

Marking : Company name, material designation or marked designation and factory identification on package ok reel

See General Information preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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	w/o Imp	H W I	H A I	H V R	D 4 5	C T I
Liquid crystal polyester (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.