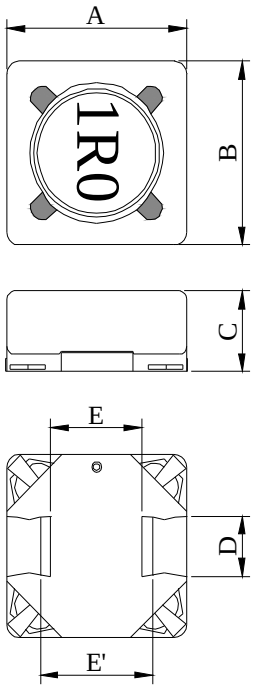
SPECIFICATION FOR APPROVAL

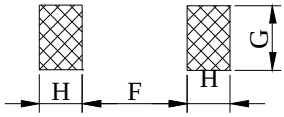
REF : 20100112-A

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	BS0704□□□□F□-□□□
		ABC'S ITEM NO.	

Ⅰ．MECHANICAL DIMENSIONS：

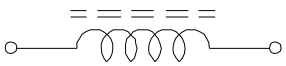


A：	7.30 ± 0.2		m/m
B：	7.30 ± 0.2		m/m
C：	4.50 ± 0.2		m/m
D：	2.00	typ.	m/m
E：	4.60	typ.	m/m
E'：	4.90	typ.	m/m
F：	4.80	typ.	m/m
G：	2.40	ref	m/m
H：	1.50	ref	m/m



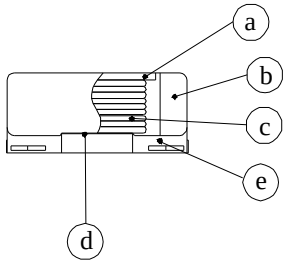
（PCB Pattern）

Ⅱ．SCHEMATIC DIAGRAM：



Ⅲ．MATERIALS LIST：

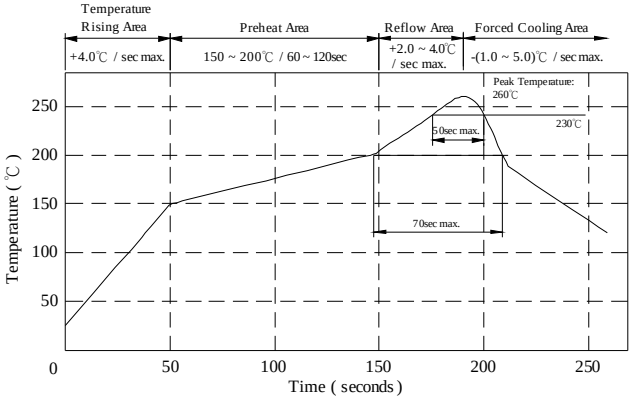
a．Core：Ferrite DR core
b．Core：Ferrite RI core
c．Wire：Enamelled copper wire （class H）
d．Terminal：Cu/Ni/Sn
e．Base：LCP Base
f．Adhesive：Epoxy resin
g．Remark：Products comply with RoHS' requirements



Ⅳ．ELECTRICAL CHARACTERISTICS：

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

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



千如電子集團
ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	BS0704□□□□F□-□□□
		ABC'S ITEM NO.	

Ⅴ．ELECTRICAL CHARACTERISTICS：

DWG No.	Inductance (uH)	Test Freq. (Hz) / 1V	RDC (Ω) max.	Irms (A)	Isat (A)
BS07041R0MF□ -□□□	1.0±20%	1K	0.013	5.00	5.60
BS07042R2MF□ -□□□	2.2±20%	1K	0.018	4.20	5.00
BS07043R3MF□ -□□□	3.3±20%	1K	0.022	3.80	4.40
BS07044R7MF□ -□□□	4.7±20%	1K	0.028	3.60	4.00
BS07045R6MF□ -□□□	5.6±20%	1K	0.032	3.00	3.40
BS07046R8MF□ -□□□	6.8±20%	1K	0.040	2.80	3.20
BS0704100MF□ -□□□	10.0±20%	1K	0.052	2.10	2.50
BS0704120MF□ -□□□	12.0±20%	1K	0.062	2.00	2.30
BS0704150MF□ -□□□	15.0±20%	1K	0.075	1.90	2.10
BS0704180MF□ -□□□	18.0±20%	1K	0.090	1.80	1.95
BS0704220MF□ -□□□	22.0±20%	1K	0.096	1.65	1.75
BS0704270MF□ -□□□	27.0±20%	1K	0.130	1.45	1.62
BS0704330MF□ -□□□	33.0±20%	1K	0.150	1.35	1.45
BS0704390MF□ -□□□	39.0±20%	1K	0.190	1.17	1.30
BS0704470MF□ -□□□	47.0±20%	1K	0.210	1.05	1.20
BS0704560MF□ -□□□	56.0±20%	1K	0.240	0.95	1.10
BS0704680MF□ -□□□	68.0±20%	1K	0.300	0.86	0.96
BS0704820MF□ -□□□	82.0±20%	1K	0.400	0.78	0.90
BS0704101MF□ -□□□	100.0±20%	1K	0.450	0.70	0.78
BS0704121MF□ -□□□	120.0±20%	1K	0.550	0.60	0.70
BS0704151MF□ -□□□	150.0±20%	1K	0.760	0.48	0.58
BS0704181MF□ -□□□	180.0±20%	1K	0.820	0.46	0.54
BS0704221MF□ -□□□	220.0±20%	1K	0.950	0.42	0.50
BS0704271MF□ -□□□	270.0±20%	1K	1.200	0.38	0.46
BS0704331MF□ -□□□	330.0±20%	1K	1.500	0.34	0.40
BS0704391MF□ -□□□	390.0±20%	1K	1.850	0.32	0.36
BS0704471MF□ -□□□	470.0±20%	1K	2.200	0.29	0.34
BS0704561MF□ -□□□	560.0±20%	1K	2.600	0.26	0.30
BS0704681MF□ -□□□	680.0±20%	1K	2.800	0.24	0.28
BS0704821MF□ -□□□	820.0±20%	1K	3.500	0.22	0.26
BS0704102MF□ -□□□	1000.0±20%	1K	4.100	0.20	0.24

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

2)."-□□□":Reference code

3). L Test Freq.：1KHz / 1V

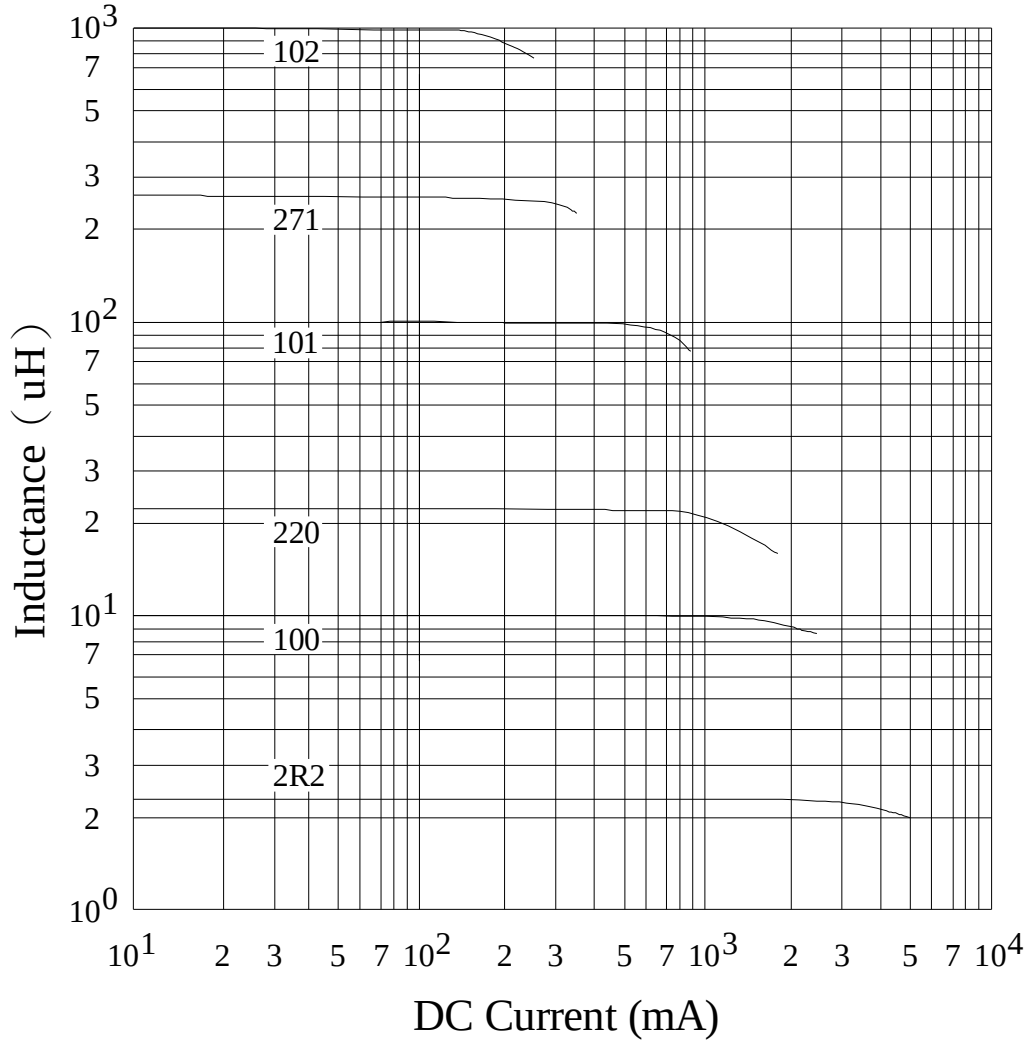
4). Irms base on Temp. rise 40℃ max.

5). Isat base on △L/L0A=25% max.

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	BS0704□□□□F□-□□□
		ABC'S ITEM NO.	

Ⅵ．Inductance VS DC Current Curve：



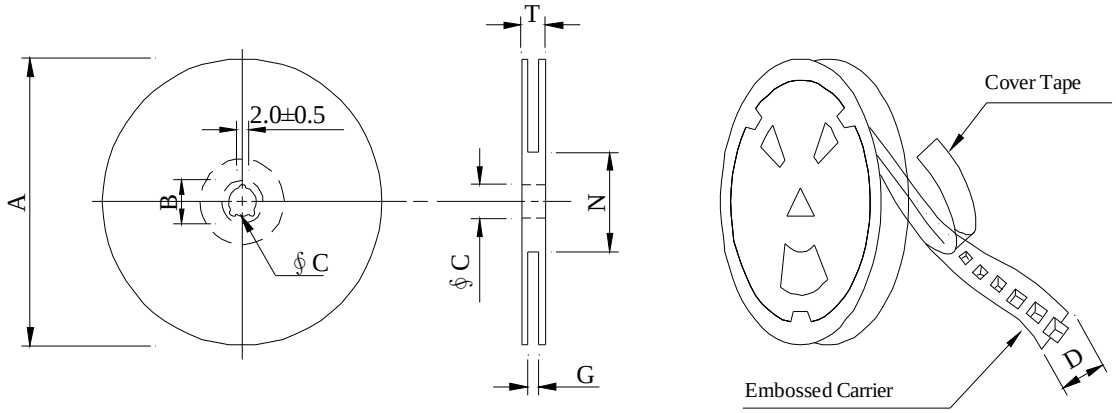
千如電子集團 ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

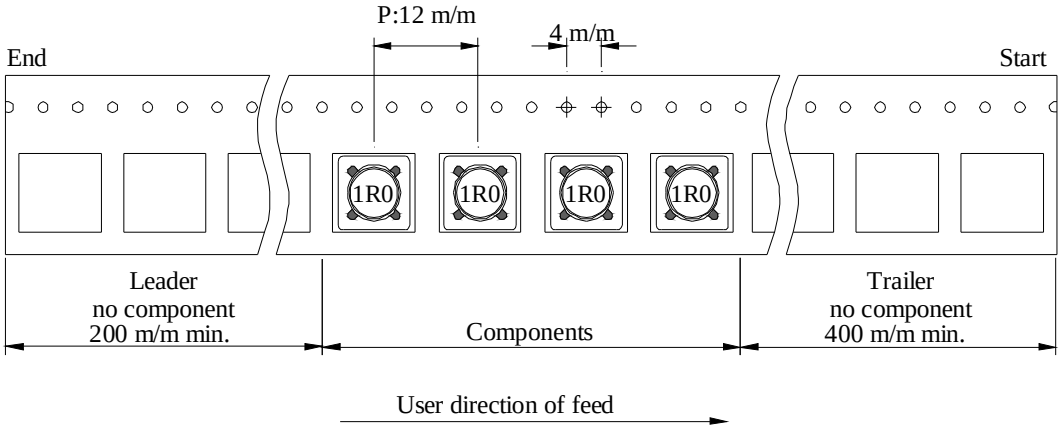
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	BS0704□□□□F□-□□□
		ABC'S ITEM NO.	

Ⅶ . 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)
BS0704-F	1,000	825	13 - 16	6,000	11.6	40 x 40 x 24

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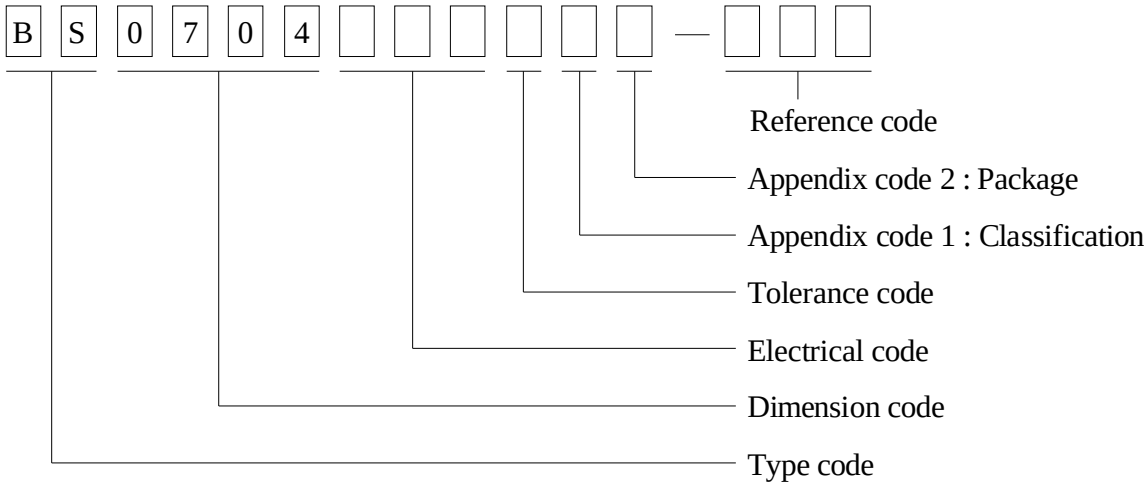
		ABC'S ITEM NO.	

Ⅷ．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 Q'TY	Remark
A	T.B.D.	T.B.D.	
B	T / R (Reel package)	1000 pcs	

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		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 → -25 ℃ / 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

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		ABC'S ITEM NO.	

X . UL CARD :

OBMW2 October 06, 2005

Magnet Wire-Comporent

ELEKTRISOLA (MALAYSLA) SDN BHD E143312
JALAN DAMAI SATU JANDA BAIK 28750 BENTONG, PAHANG
DARUL MAKMUR MALAYSIA

Mtl Dsg	Mark Dsg	Coating Type BC	OC	ANSI Typ	Temp Class
Estersol 180	E180	Polyesterimide (solderable)	——	MW-77	180
Amldester 200	A200	Polyesterimide	——	MW-74	200
Polysol-N 155	PN155	Polyurechane	Nylon	MW-80, MW-28	155, 130
Polysol 155	P155, G155	Polyurechane	——	MW-79, MW-75	155, 130
Polysol 155g	Pg155	Polyurechane	——	MW-75	130
Polysol 155p	Pp155,Gp155	Polyurechane	——	MW-79	155
Polysol 160	P160	Polyurechane	——	MW-79	155
Polysol 180	P180,G180	Polyurechane	——	MW-82 MW-79	180 155
Polysol 170	P170 or G170	Polyurechane	——	MW-79	155
Polysol-N 180	PN180	Polyurechane	Nylon	MW-83	180
Polysol P155p	P155p		——	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	RTI Mech w/o Imp	H W I	H A I	H V T R	D 4 9 5	C T I
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.