

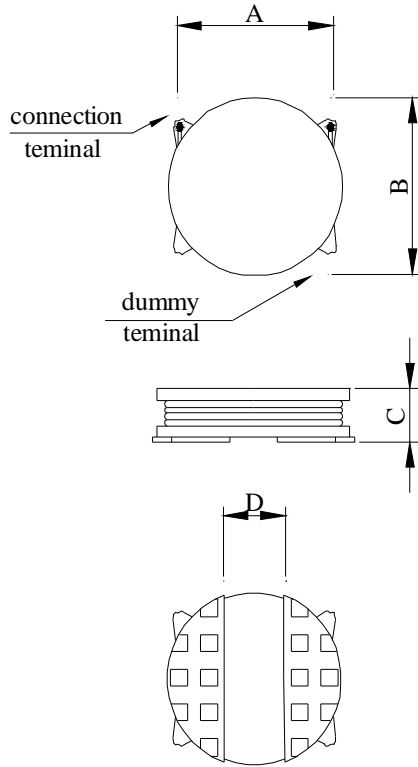
SPECIFICATION FOR APPROVAL

REF : 20100728-A

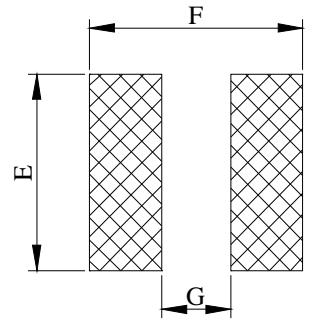
PAGE: 1

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	CB2010□□□□□□□□
---------------	--------------------	---------------------------------	----------------

I . CONFIGURATION & DIMENSIONS :

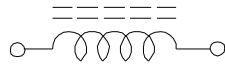


A :	2.00 ±0.2	m / m
B :	2.00 ±0.2	m / m
C :	1.00 ±0.1	m / m
D :	0.70 typ.	m / m
E :	2.60 ref.	m / m
F :	2.50 ref.	m / m
G :	0.70 ref.	m / m



(PCB Pattern Suggestion)

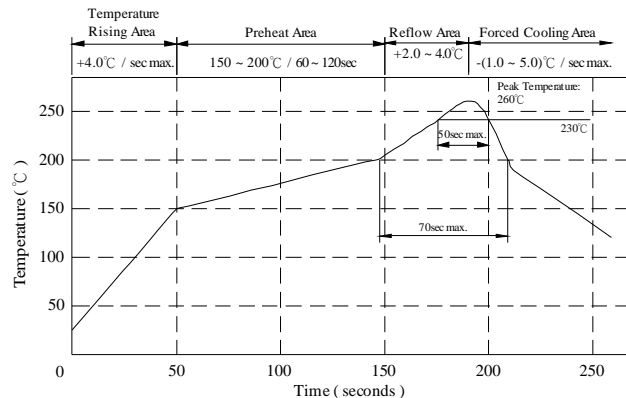
II . SCHEMATIC DIAGRAM :



III . MATERIALS :

- a . Core : Ferrite core
- b . Wire : Enamelled copper wire (Class H)
- c . Base : Cu/Ni/Au
- d . Adhesive : Epoxy resin
- e . 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 . GENERAL SPECIFICATION :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+125°C

AR-001A

SPECIFICATION FOR APPROVAL

REF : 20100728-A

PAGE: 2

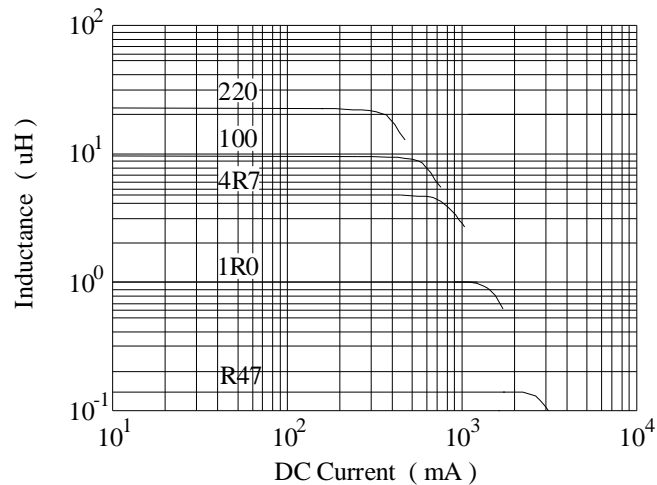
PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	CB2010□□□□L□-□□□
		ABC'S ITEM NO.	

V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μH)	RDC (mΩ) max.	SRF (MHz) typ.	I _{rms} (mA) typ.	I _{peak} (mA)	
					max.	typ.
CB2010R47ML□-□□□	0.47±20%	100	250	1600	2400	3100
CB2010R58ML□-□□□	0.58±20%	120	200	1500	2100	2700
CB2010R80ML□-□□□	0.80±20%	150	185	1400	1900	2400
CB20101R0ML□-□□□	1.00±20%	200	160	1200	1800	2100
CB20101R5ML□-□□□	1.50±20%	270	140	970	1450	1900
CB20102R0ML□-□□□	2.00±20%	315	120	900	1250	1700
CB20102R2ML□-□□□	2.20±20%	400	105	840	1200	1300
CB20103R3ML□-□□□	3.30±20%	550	85	730	980	1100
CB20104R7ML□-□□□	4.70±20%	800	65	600	800	950
CB20106R8ML□-□□□	6.80±20%	1000	55	540	730	850
CB20108R2ML□-□□□	8.20±20%	1300	50	490	650	750
CB2010100ML□-□□□	10.00±20%	1450	43	440	610	650
CB2010120ML□-□□□	12.00±20%	1840	35	390	510	550
CB2010150ML□-□□□	15.00±20%	2140	30	360	470	490
CB2010220ML□-□□□	22.00±20%	3600	25	200	420	450

- 1). □ : Packaging information ... [A] Bulk [B] Taping Reel
- 2). "- □ □ □ ":Reference code
- 3). Inductance Test Freq. : 100KHz /0.1V
- 4). I_{rms} Base on Temp. rise 40°C
- 5). I_{peak} : Approximately peak current at short time is 10 %

@ Inductance VS. DC Superposition Characteristics



AR-001A



SPECIFICATION FOR APPROVAL

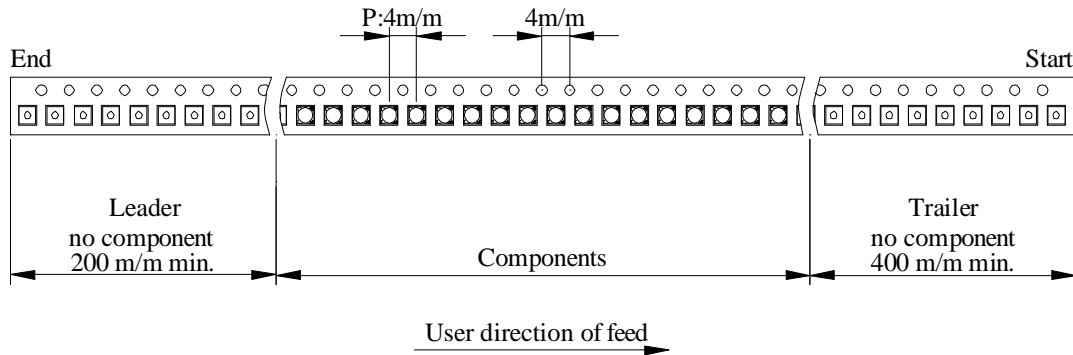
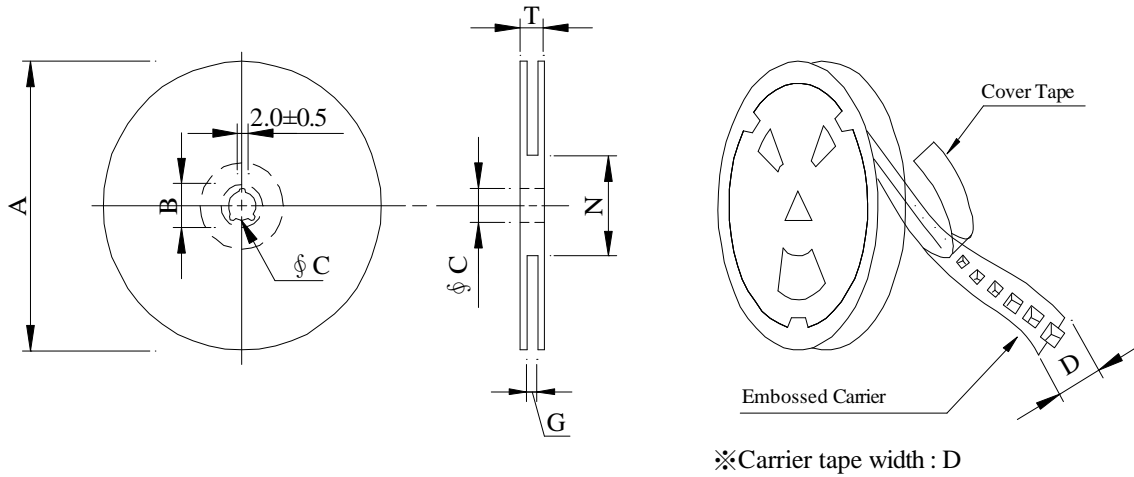
REF: 20100728-A

PAGE: 3

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	CB2010□□□□L□-□□□
		ABC'S ITEM NO.	

VI . PACKAGING INFORMATION

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 08	178	21±0.8	13	8	10 ⁺⁰	50 ⁻⁰	12.5

(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)
CB2010	3000	330	07 - 08	150,000	16.20	42 x 41 x 24

AR-001A

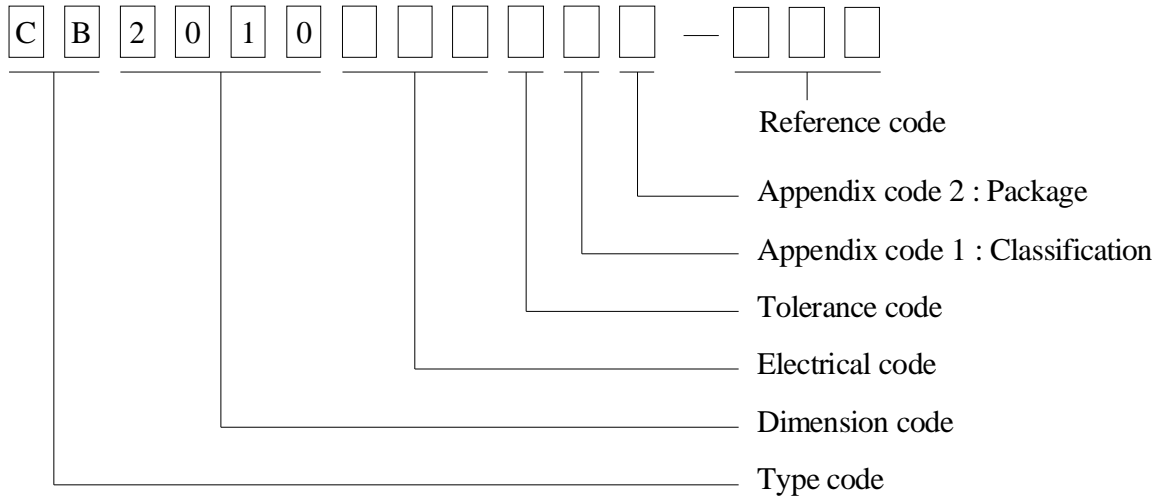
SPECIFICATION FOR APPROVAL

REF: 20100728-A

PAGE: 4

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	CB2010□□□□L□-□□□
		ABC'S ITEM NO.	

VII . 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 QTY	Remark
A	T.B.D.	T.B.D.	
B	T /R (Reel package)	3000 pcs	

SPECIFICATION FOR APPROVAL

REF: 20100728-A

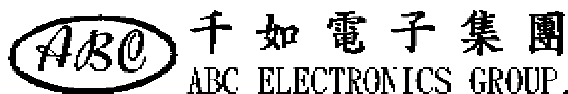
PAGE: 5

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	CB2010□□□□L□-□□□
		ABC'S ITEM NO.	

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; border: none;">Room temp. 15 minutes</td> <td style="text-align: center; border: none;">→</td> <td style="text-align: center; border: none;">-40 °C 30 minutes</td> </tr> <tr> <td style="text-align: center; border: none;">Room temp. 15 minutes</td> <td style="text-align: center; border: none;">→</td> <td style="text-align: center; border: none;">+125 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-40 °C 30 minutes	Room temp. 15 minutes	→	+125 °C 30 minutes
Room temp. 15 minutes	→	-40 °C 30 minutes						
Room temp. 15 minutes	→	+125 °C 30 minutes						
Humidity test		Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours						
High temp. Resistance test		Temperature : 125±5°C Applied current : Per spec. Time : 96 hours						

AR-001A



SPECIFICATION FOR APPROVAL

REF: 20100728-A

PAGE: 6

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	CB2010□□□□L□-□□□
---------------	--------------------	---------------------------------	------------------

IX . UL CARD :

OBMW2 October 06, 2005
Magnet Wire-Component

ELEKTRISOLA (MALAYSIA) 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	180
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.