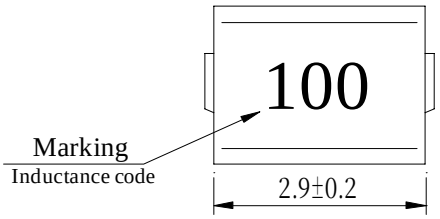
SPECIFICATION FOR APPROVAL

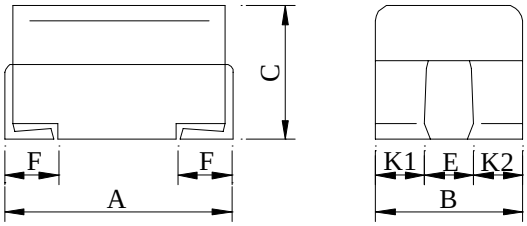
REF : PAGE: 1

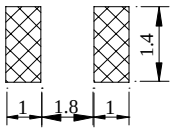
PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅰ . CONFIGURATION & DIMENSIONS：



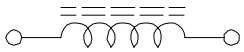
A : 3.2±0.4 m/m
B : 2.5±0.2 m/m
C : 2.2±0.2 m/m
E : 1.0±0.2 m/m
F : 0.6 m/m
※ △K=｜K1-K2｜=0.25 $^{+0}$ m/m



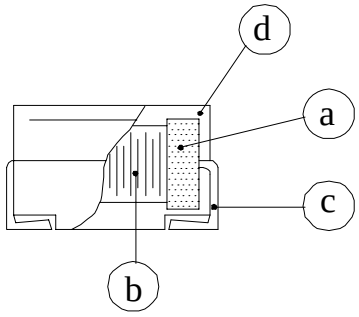


（ PCB Pattern ）

Ⅱ . SCHEMATIC DIAGRAM：



Ⅲ . MATERIALS：

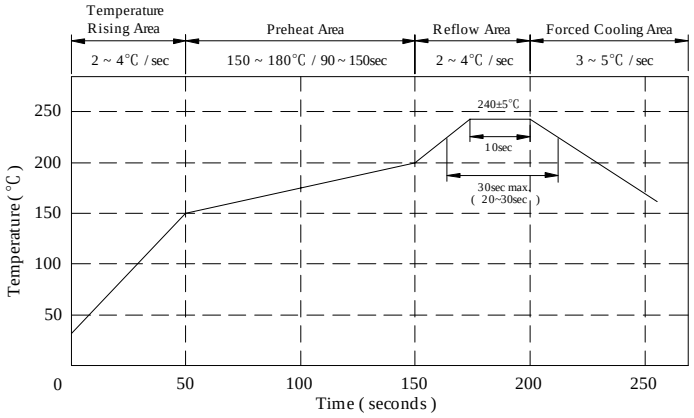


a . Core：Ferrite DR core
b . Wire ：Enamelled copper wire (class H)
c . Terminal：Cu/Sn
d . Encapsulate：Epoxy novolac molding compound
e . Remark：Products comply with RoHS' requirements

Ⅳ . GENERAL SPECIFICATION：

a . Temp. rise ：20℃ max.
b . Ambient temp.：100℃ max.
c . Storage temp.：-40℃ ----+125℃
d . Operating temp.：-40℃----+125℃
e . Terminal strength：0.5 kg min.
f . Rated current：Current cause inductance drop within 10%
g . Resistance to solder heat：260℃.10 secs.
h . Resistance to solvent：Per MIL-STD-202F

Peak Temp：245℃ max.
Max time above 225℃ ：30sec max.
Max time above 200℃ ：50sec max.



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ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅴ . ELECTRICAL CHARACTERISTICS：

DWG No.	Inductance (μH)	Q min.	Test Freq (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
CC32251R0KL□-□□□	1.00±10%	10	7.96	100	0.156	770
CC32251R5ML□-□□□	1.50±20%	10	7.96	80	0.195	580
CC32252R2ML□-□□□	2.20±20%	10	7.96	65	0.260	480
CC32253R3ML□-□□□	3.30±20%	10	7.96	55	0.325	400
CC32254R7ML□-□□□	4.70±20%	10	7.96	45	0.520	320
CC32256R8ML□-□□□	6.80±20%	10	7.96	35	0.650	280
CC3225100KL□-□□□	10.00±10%	15	2.52	28	1.105	220
CC3225150KL□-□□□	15.00±10%	15	2.52	25	1.690	180
CC3225220KL□-□□□	22.00±10%	15	2.52	20	2.600	145
CC3225270KL□-□□□	27.00±10%	15	2.52	17	3.000	125
CC3225330KL□-□□□	33.00±10%	15	2.52	15	3.640	115
CC3225470KL□-□□□	47.00±10%	20	2.52	13	5.460	105
CC3225680KL□-□□□	68.00±10%	20	2.52	10	8.450	85
CC3225820KL□-□□□	82.00±10%	20	2.52	9	8.710	80
CC3225101KL□-□□□	100.00±10%	20	0.796	8	10.140	75

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

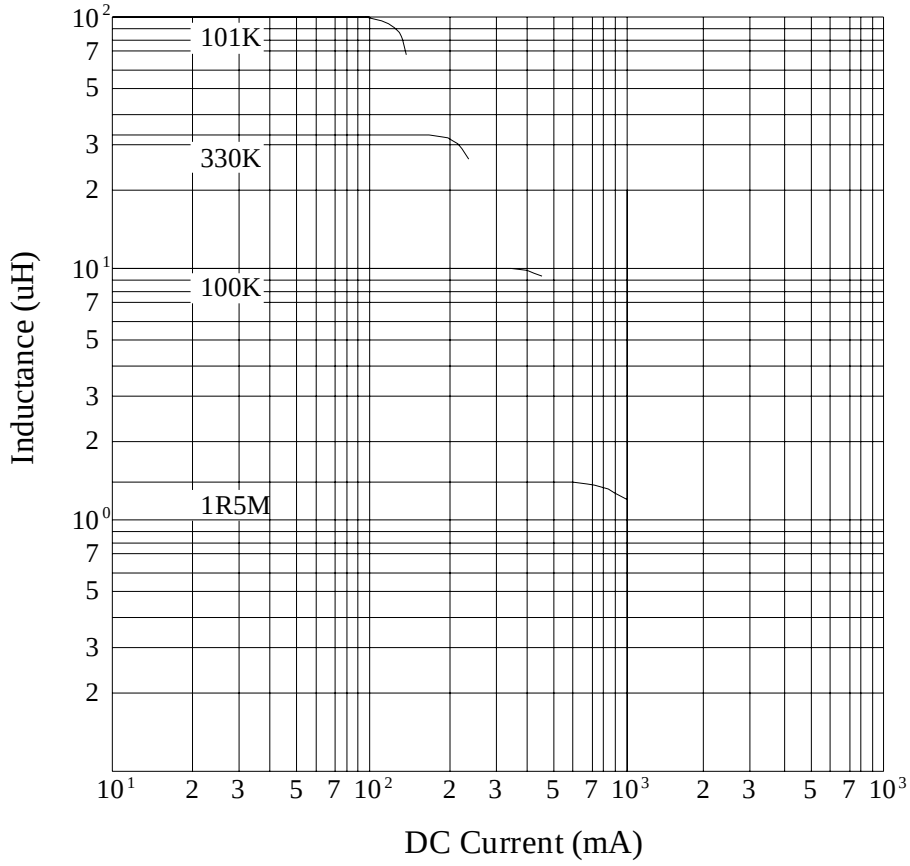
2). "-□□□ ":Reference code

SPECIFICATION FOR APPROVAL

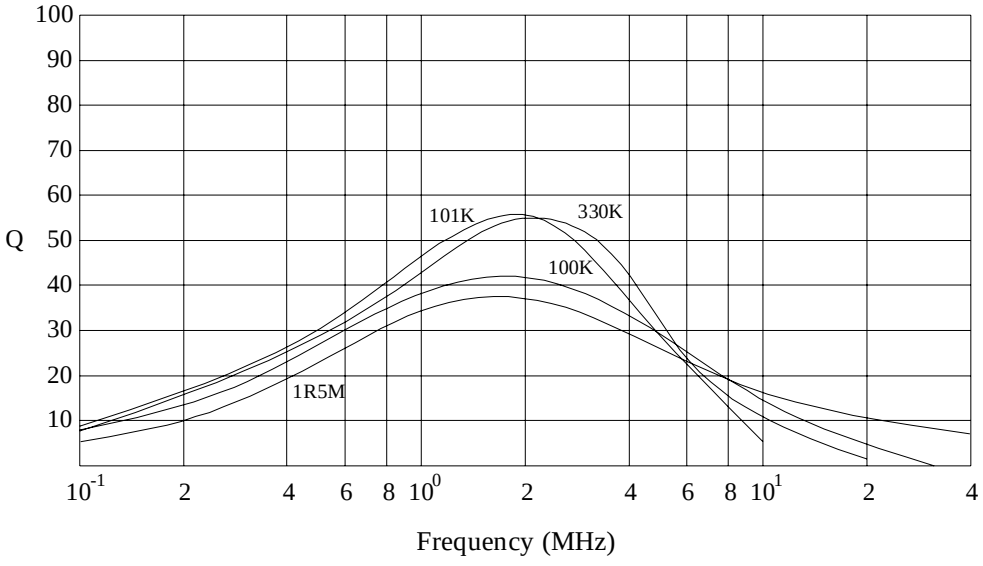
PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅵ . CURVE :

@ Inductance VS. DC Superposition Characteristics



@ Q VS. Frequency Response



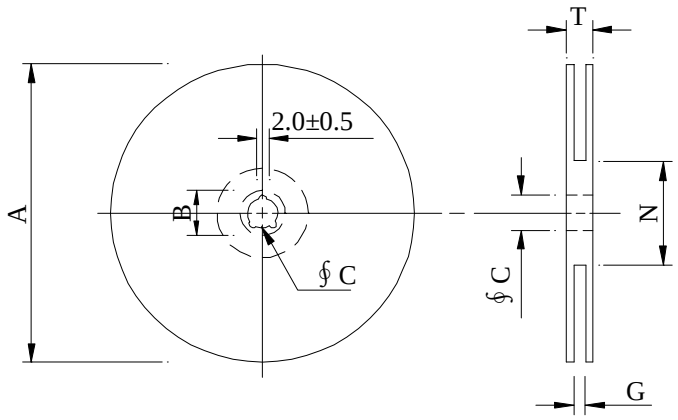
千如電子集團 ABC ELECTRONICS GROUP.

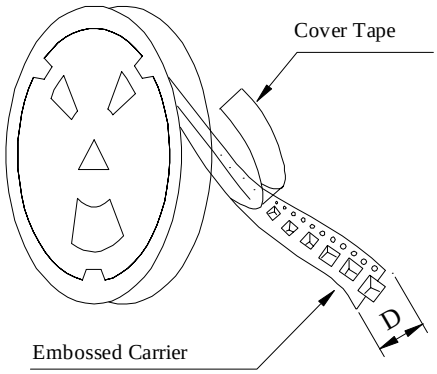
SPECIFICATION FOR APPROVAL

PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

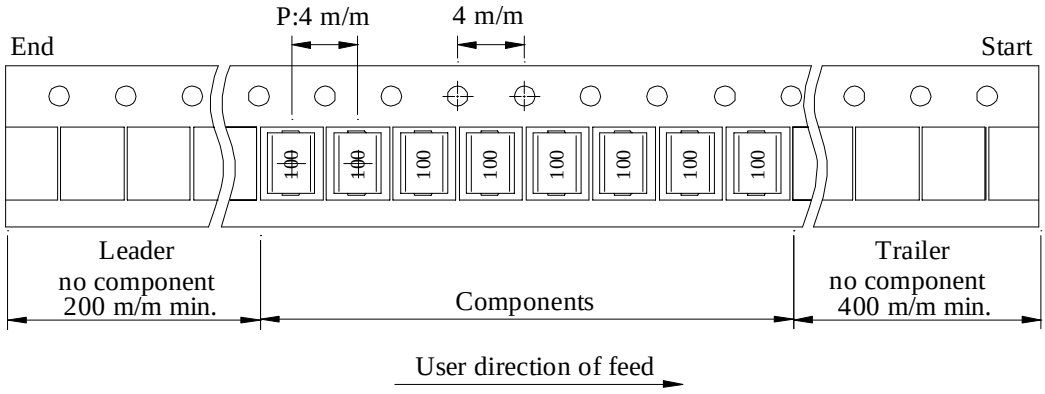
Ⅶ．PACKAGING INFORMATION：

(1) Configuration





※Carrier Tape Width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 08	178	21±0.8	13	8	10^{+0}	50^{-0}	12.5
13 - 12	330	21±0.8	13	12	10^{+0}	50^{-0}	18.4

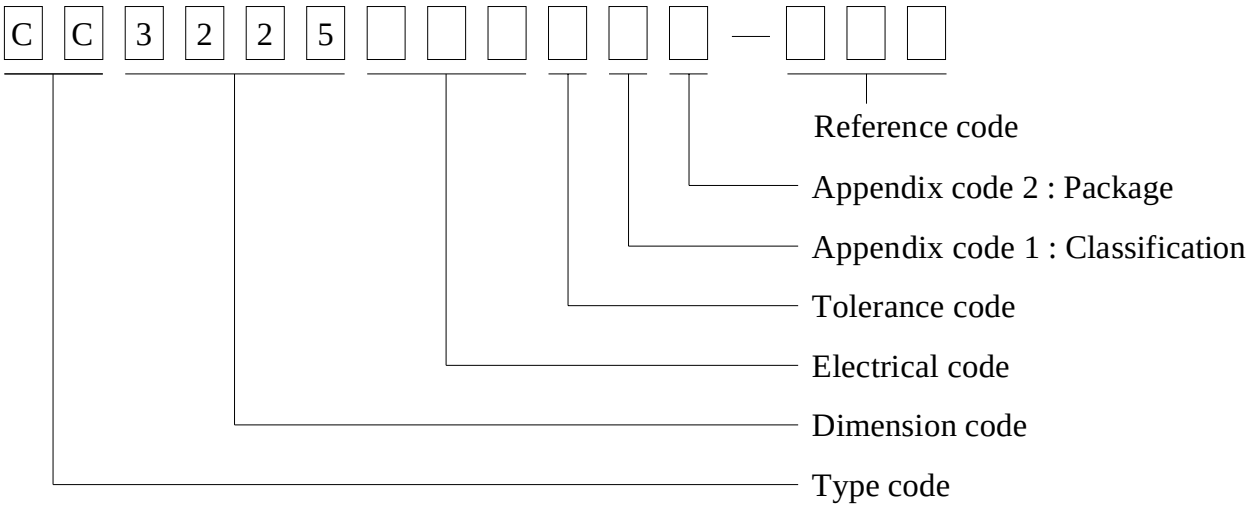
(3) Q'TY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
CC3225	1,000	110	07 - 08	50,000	7.50	41 x 39 x 22
CC3225	2,000	220	07 - 08	100,000	15.00	41 x 39 x 22
CC3225	7,000	770	13 - 12	168,000	25.20	41 x 39 x 22

SPECIFICATION FOR APPROVAL

PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□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	Bag	1000 pcs	
B	T / R (Reel package)	1000 pcs	
C	T / R (Reel package)	2000 pcs	
D	T / R (Reel package)	7000 pcs	

SPECIFICATION FOR APPROVAL

PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

Ⅸ . RELIABILITY TEST :

Test item	Specification	Test condition / Test method
● Electrical performance test		
Inductance L	Refer to standard electrical characteristic list	□HP4194A with HP-16034E test fixture
Q		
Self resonance frequency SRF		□HP4291A with HP-16093A test fixture
DC Resistance RDC		CH-502AC
Rated current IDC		Applied the current to coils, The Inductance change shall be less than 10% to initial value & temperature rise shall not be more than 20℃
Temperature rise test	20℃ max.	1 . Applied the allowed DC current for 10 minutes 2 . Temperature measure by digital surface thermometer
Over load test	After test, Inductors shall be no evidence of electrical and mechanical damage	Applied 2 times of rated allowed DC current to inductor for a period of 5 minutes
Withstanding voltage test	After tset, Inductors shall be no evidence of electrical and mechanical damage	AC voltage of 1000VAC applied between inductors terminal and coating for 5 seconds
Insulation resistance test	1000 MΩ min .	100 VDC applied between inductor terminal and coating
● Mechanical performance test		
Vibration test (Low frequency)	1 . Inductors shall be no evidence of electrical and mechanical damage 2 . Inductance shall not change more than±5% 3 . Q Shall not change more than ±20%	1 . Amplitude : 1.5 m/m 2 . Frequency : 10 -- 55 -- 10 Hz / 1min. 3 . Direction : X, Y, Z 4 . Duration : 2 hrs / X, Y, Z
Shock test		Inductors shall be dropped 10 times from a height of 1m onto 3cm wooden board
Resistance to soldering heat		Temp : 260±5℃ Time : 10±1.0 sec.

SPECIFICATION FOR APPROVAL

PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

Terminal strength-pull test	Terminal shall not be loosened or ruptured	A 0.5kg load shall be applied to both Terminals in the axis direction for 1 minute .
Solderability test	The terminal shall be at least 90% covered with solder	After fluxing, Inductor shall be dipped in a melted solder bath at 240±5℃ for 5 seconds .
Resistance to solvent test	There shall be no case deformation change in appearance or obliteration of marking	MIL-STD-202F, Method 215D
● Climatic test		
Temperature characteristic	1 . Inductors shall be no evidence of electrical and mechanical damage 2 . Inductance shall not change more than ±10% 3 . Q shall not change more than ±20%	-40℃ -- +125℃
Humidity test		1 . Temp：40±2℃ 2 . R.H.：90 -- 95% 3 . Time：96±2 hours
Cold test		1 . Temp：-25±2℃ 2 . Time：96±2 hours
Thermal shock test		Room temp 15 mins → -40±2℃ 30 mins → Room temp 15 mins → +125±2℃ 30 mins Total：5 cycles
Dry heat test		1 . Temp：85±2℃ 2 . Time：96±2 hours
High temperature load life test	There shall be no evidence of short or open circuiting	1 . Temp：85±2℃ 2 . Time：1000±12 hours 3 . Load：Allowed DC current
Humidity load life		1 . Temp：40±2℃ 2 . R.H.：90 -- 95% 3 . Time：1000±12 hours 4 . Load：Allowed DC current

● Note：

Unless otherwise specified , Allow the specimen to stand at room temperature for 1 hour or more but not more than 2 hours , Measure the electrical and mechanical performances

SPECIFICATION FOR APPROVAL

PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

X . UL CARD：

OBMW2 August 27, 1999

Magnet Wire-Component

ELEKTRISOLA (MALAYSLA) SDN BHD E143312
IALAN DAMN SATU IANDA BAIK 28750 BENTONG, PAHANG
DARUL MAKMUR MALAYSIA

Mtl Dsg	Mark Dsg	Coating Type BC	Coating Type OC	ANSI Typ	Temp Class
Estersol 160	E180	Polyesterimide (solderable)	——	MW-77	180
Amldester 200	A200	Polyesterimide	——	MW-74	200
Polysol-N 155	PN155	Polyurechane	Nylon	MW-80, MW-28	155, 100
Polysol 155	P155	Polyurechane	——	MW-79, MW-79	155, 130
Polysol 155g	Pg155	Polyurechane	——	MW-79	130
Polysol 155p	Pp155,Gp155	Polyurechane	——	MW-79	155
Polysol 160	P160	Polyurechane	——	MW-79	155
Polysol 180	P180	Polyurechane	——	MW-79	155
Polysol 170	P170 or G170	Polyurechane	——	MW-79	156
Polysol-N 180	PN180	Polyurechane	Nylon	——	180

Marking：Dompany name/nateriel 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.

OMFZ2 March 4, 1994

Component-Plastics

CHANG CHUN PLASTICS CO LTD E59481 (S)

(F1-cont. from F card)

BM-21	ALL	0.79	94HB	50	50	50	—	—	—	—	—
BM-22	ALL	0.79	94HB	50	50	50	—	—	—	—	—
BM-23	ALL	0.79	94V-0	50	50	50	—	—	—	—	—
EME-1100	BK	0.84	94V-0	130	130	130	—	—	—	—	—
	BK	6.4	94V-0	130	130	130	—	—	—	—	—
EME-1200	BK	0.84	94V-0	130	130	130	—	—	—	—	—
	BK	6.4	94V-0	130	130	130	—	—	—	—	—
EME-5961C	BK	0.3	94V-0	130	130	130	—	—	—	—	—
	BK	3.1	94V-0	130	130	130	—	—	—	—	—

Reports: January 19, 1988: January 19, 1988: January 19, 1988: June 2, 1988; June 2, 1998; June 2, 1988.

Replaces E59481C dated February 7, 1989.

(Cont. on C1 card)

262854001 N7047 Underwriters Laboratories Inc.®

D11/0018965