

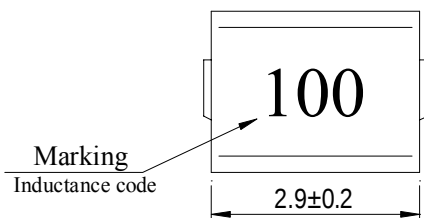
SPECIFICATION FOR APPROVAL

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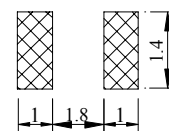
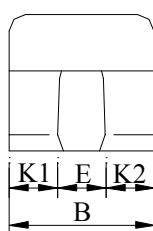
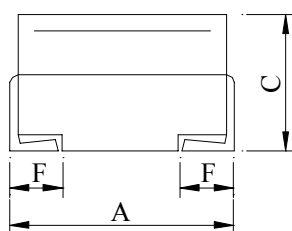
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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

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 ^{+0.3} ₋₀	m/m
K	= K1-K2 = 0.25 ⁺⁰	m/m



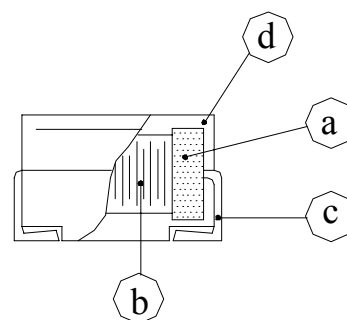
(PCB Pattern)

SCHEMATIC DIAGRAM :



MATERIALS :

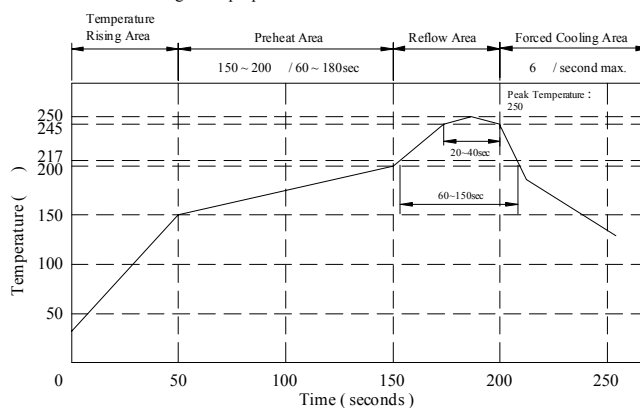
- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire (class H)
- c . Terminal : Cu/Sn
- d . Encapsulate : Epoxy novolac molding compound
- e . Remark : Products comply with RoHS' requirements



GENERAL SPECIFICATION :

- a . Temp. rise : 20 max.
- b . Ambient temp. : 100 max.
- c . Storage temp. : -40 ----+125
- d . Operating temp. : -40 ----+125
- e . Terminal pull strength : 1.5 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

Reflow profile
Peak Temp : 250 max.
Max time above 245 : 20~40sec max.
Max time above 217 : 60~150sec max.
200 ~250 Average Ramp-up Rate : 3 /second max.



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

. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Q min.	Test Freq (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
CC32251R0ML□-□□□	1.00 $\pm$ 20%	10	7.96	100	0.156	770
CC32251R5ML□-□□□	1.50 $\pm$ 20%	10	7.96	80	0.195	580
CC32252R2ML□-□□□	2.20 $\pm$ 20%	10	7.96	65	0.260	480
CC32253R3ML□-□□□	3.30 $\pm$ 20%	10	7.96	55	0.325	400
CC32254R7ML□-□□□	4.70 $\pm$ 20%	10	7.96	45	0.520	320
CC32256R8ML□-□□□	6.80 $\pm$ 20%	10	7.96	35	0.650	280
CC3225100KL□-□□□	10.00 $\pm$ 10%	15	2.52	28	1.105	220
CC3225150KL□-□□□	15.00 $\pm$ 10%	15	2.52	25	1.690	180
CC3225220KL□-□□□	22.00 $\pm$ 10%	15	2.52	20	2.600	145
CC3225270KL□-□□□	27.00 $\pm$ 10%	15	2.52	17	3.000	125
CC3225330KL□-□□□	33.00 $\pm$ 10%	15	2.52	15	3.640	115
CC3225470KL□-□□□	47.00 $\pm$ 10%	20	2.52	13	5.460	105
CC3225680KL□-□□□	68.00 $\pm$ 10%	20	2.52	10	8.450	85
CC3225820KL□-□□□	82.00 $\pm$ 10%	20	2.52	9	8.710	80
CC3225101KL□-□□□	100.00 $\pm$ 10%	20	0.796	8	10.140	75

1). □ : Packaging information... ☐ Bulk ☐ Taping Reel

2). "- □□□ ":Reference code

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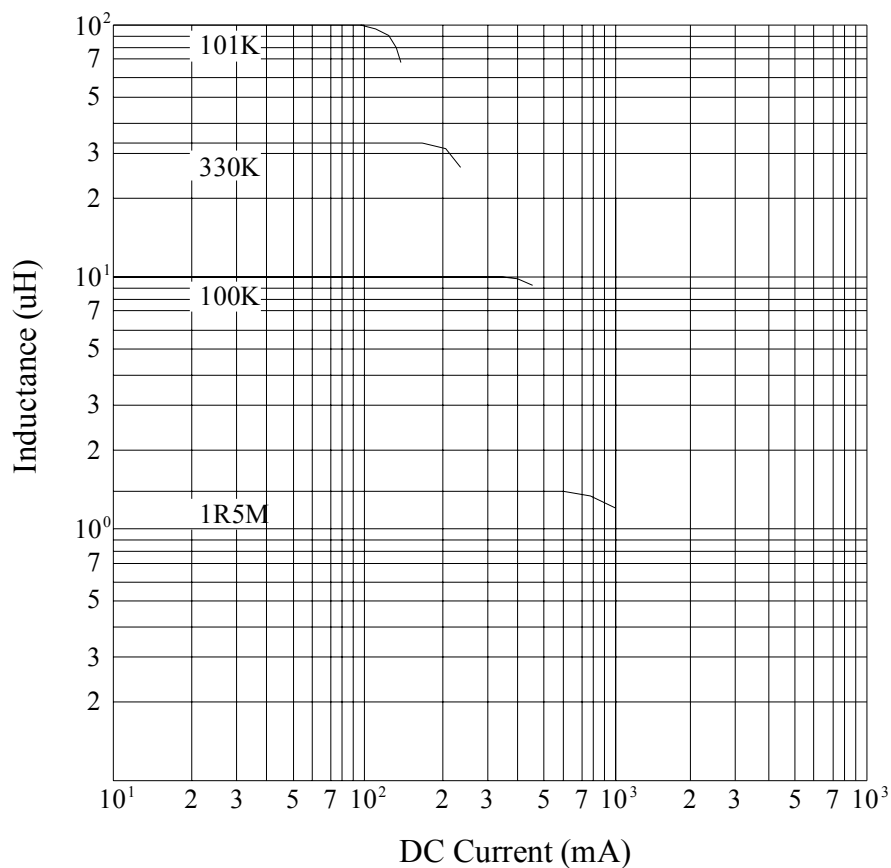
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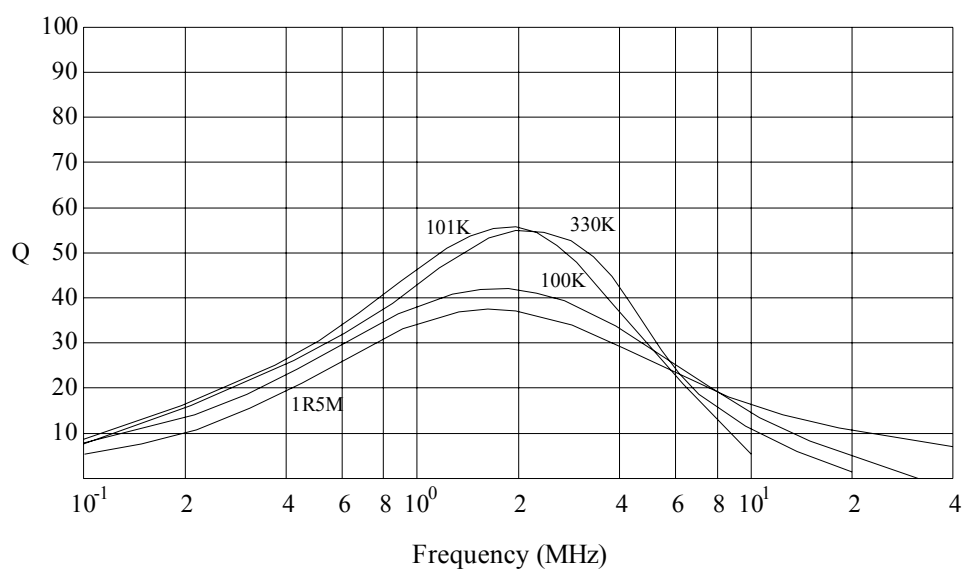
PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

. CURVE :

@ Inductance VS. DC Superposition Characteristics



@ Q VS. Frequency Response



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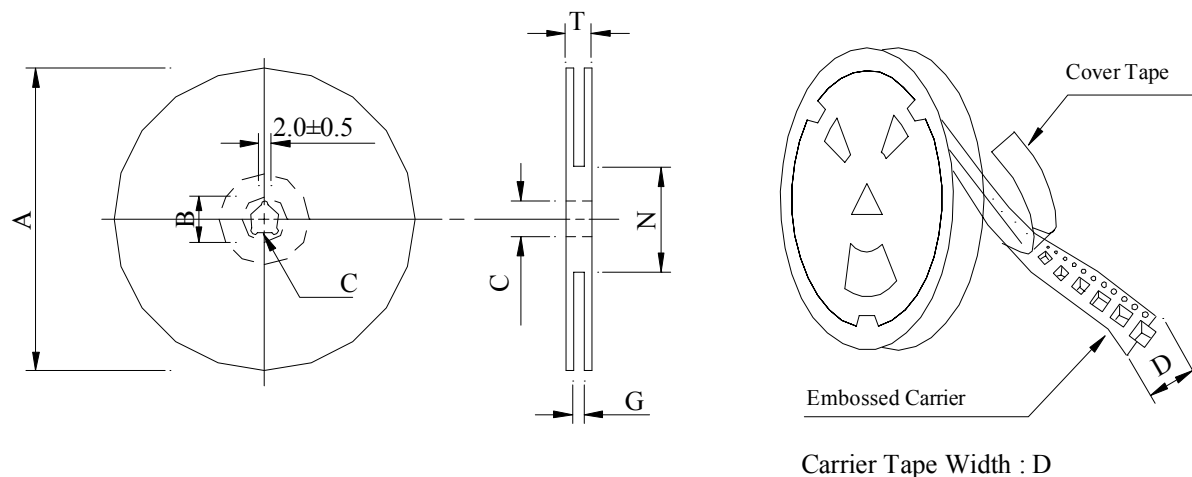
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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

PACKAGING INFORMATION :

(1) Configuration



There is no differentiation or directions of polarity (marking) in the packaging method.

(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

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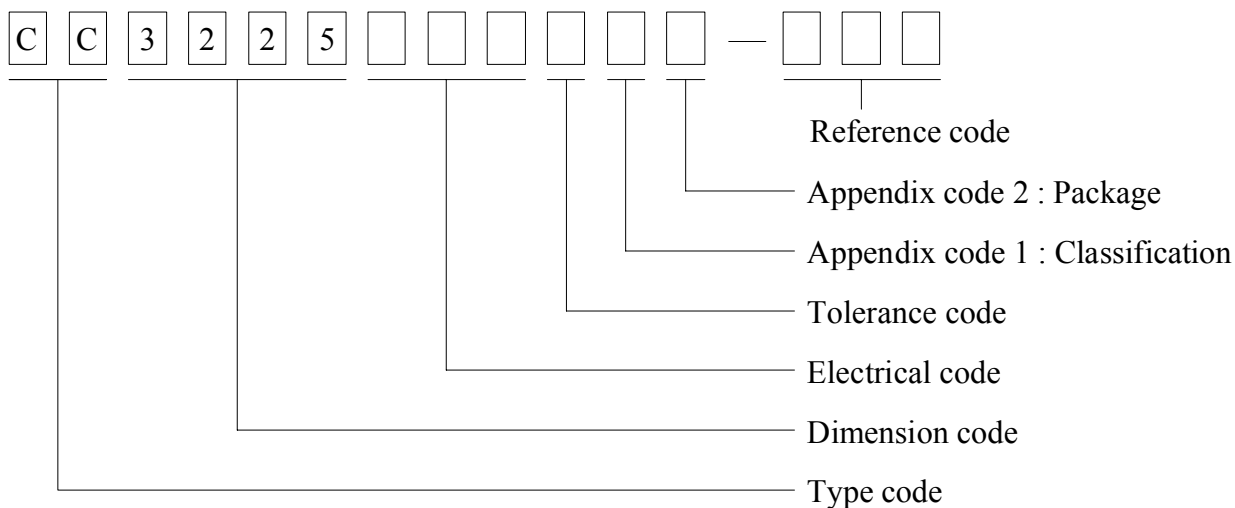
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PROD. NAME	WOUND CHIP INDUCTOR	ABC'S DWG NO.	CC3225□□□□L□-□□□
		ABC'S ITEM NO.	

. DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

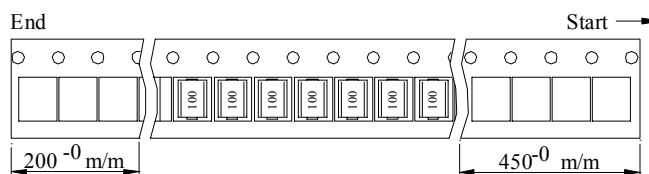
L : Lead Free Standard products comply with RoHS' requirements

1 ~ 9 : Lead Free Special products comply with RoHS' requirements

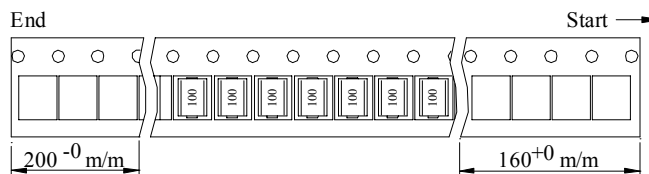
Appendix code 2 : Package Information

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	[anti-static]
D	T / R (Reel package)	7000 pcs	Hot-press
E	T / R (Reel package)	1000 pcs	[anti-static]
F	T / R (Reel package)	2000 pcs	

Note : ① package code "B" & "C" & "E" :



Note : ② package code "F" :



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

. 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	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	2 . Inductance shall not change more than±5%	Inductors shall be dropped 10 times from a height of 1m onto 3cm wooden board
Resistance to soldering heat	3 . Q Shall not change more than ±20%	Temp : 260±5 Time : 10±1.0 sec.

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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 temp15 mins-40±230 mins Room temp15 mins+125±230 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			

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

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

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.

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

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Электрон
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