

# Coilmaster



RoHS Compliant

## SPECIFICATION APPROVAL

CUSTOMER : Ozdisan

PRODUCT : RCB0608P-330K-LF

MATERIAL : Pb-free

CODE NO. : C04406041

CUS. CODE :

SPEC.NO. : C-4406-041(03)

DATE : 15-Mar-05

CUSTOMER APPROVAL

### **Coilmaster Electronics Co., Ltd.**

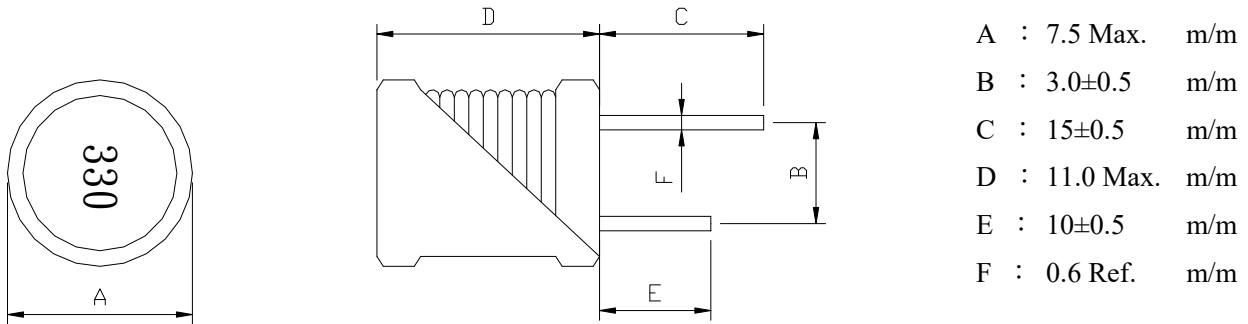
3F ,NO.211 HUAN BEI ROAD, CHUNG-LI DISTRICT  
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PREPARED BY	APPROVED BY	AUTHORIZED BY
JEAN	TONY	MASCOT

PRODUCT	RCB0608P-330K-LF	<b>COIL SPECIFICATION</b>	DATE	2005/3/15
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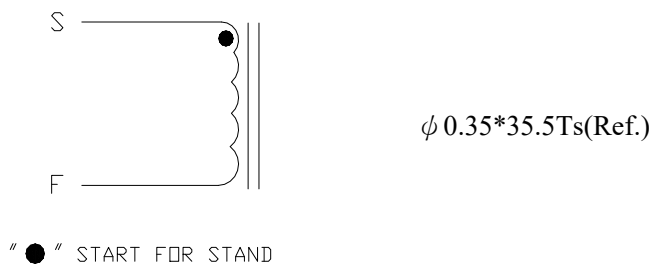
**EXTERNAL DIMENSIONS :**



**ELECTRICAL CHARACTERISTIC :**

L(μH) :	33±10%	2.52MHz	WITH PET TUBE
DCR(mΩ) :	190	Max.	
IDC(A) :	0.88	Max.	( L0.88A MAX ≥ 0Ax90% )
INDUCTANCE DROP :	10% Typ.	@ IDC 0.88 A	

**SCHEMATIC DRAWING :**



**MATERIAL LIST :**

NO	ITEM	MATERIAL	SUPPLIER OF THE MATERIAL
1	CORE	MGB1 DR2W6*8.3RN B3 F4.2 P3	TAK
2	WIRE	φ0.35 UEF1/U(155°C)	PACIFIC
3	TUBE	PET-6.0*9.0±0.3mm-0-N	TAI DA

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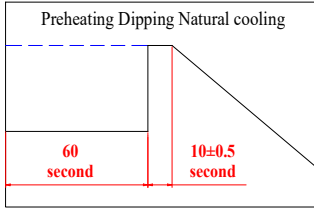
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**TEST DATA**

ELECTRICAL CHARACTERISTICS							
MEAS. ITEM	L(μH)	DCR(mΩ)	IDC(A)				
TEST FREQ.	2.52MHz	Max.	Max.				
YOUR			L(0.88A)				
SPEC.	33±10%	190	≥ 0Ax90%				
1	34.50	91.30	31.10				
2	31.60	92.30	31.20				
3	31.90	93.50	31.50				
4	31.70	92.14	31.30				
5	32.00	93.30	31.60				
6							
7							
8							
9							
10							
X	<b>32.340</b>	<b>92.508</b>	<b>31.340</b>				
R	<b>2.90</b>	<b>2.20</b>	<b>0.50</b>				

DIMENSION							
MEAS. ITEM	A	B	C	D	E	F	
TEST FREQ.	m/m	m/m	m/m	m/m	m/m	m/m	
YOUR							
SPEC.	7.5 Max.	3.0±0.5	15±0.5	11.0 Max.	10±0.5	0.6 Ref.	
1	6.31	3.09	15.35	8.61	10.01	0.60	
2	6.33	2.98	15.31	8.62	10.04	0.61	
3	6.27	3.07	15.34	8.64	10.02	0.59	
4	6.36	3.11	15.32	8.66	10.05	0.62	
5	6.35	3.05	15.31	8.65	10.07	0.57	
6							
7							
8							
9							
10							
X	<b>6.324</b>	<b>3.060</b>	<b>15.326</b>	<b>8.636</b>	<b>10.038</b>	<b>0.598</b>	
R	<b>0.09</b>	<b>0.13</b>	<b>0.04</b>	<b>0.05</b>	<b>0.06</b>	<b>0.05</b>	

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TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS		
<b><u>ELECTRICAL PERFORMANCE TEST</u></b>				
L	REFER TO STANDARD ELEC-TRICAL CHARACTERISTIC LIST.	CH-1061 OR EQUIV.		
DCR		CH-502A OR EQUIV		
RATED CURRENT		APPLIED THE CURRENT TO COILS THE IDUCTANCE CHANGE SHOULD BE LESS THAN 10% TO INITIAL VALUE AND TEMPERATURE RISE SHOULD NOT BE MORE THAN 40°C..		
TEMPERATURERISE TEST	40°C MAX ( $\Delta t$ )	1. APPLIED THE ALLOWED DC CURRENT FOR 4 HOURS. 2. TEMPERATURE MEASURE BY DIGITAL SURFACE THERMOMETER.		
OVER LOAD TEST	NO EVIDENCE OF ELECTRICAL DAMAGE	APPLIED 1.5 TIMES OF RATED ALLOWED DC CURRENT TO INDUCTORS FOR A PERIOD OF 5 MINUTES.		
<b><u>MECHANICAL PERFORMANCE TEST</u></b>				
SOLDER HEAT RESISTANCE	1. INDUCTORS SHOULD HAVE NO EVIDENCE OF ELEC- TRICAL AND MICHANICAL DAMAGE 2. INDUCTANCE SHOULD NOT HANGE MORE THAN± 10% 3. SOLDER MATERIAL WILL BE LEAD FREE.	PREHEAT:150°C 60SECS		
		SOLDER TEMPERATURE: 255±5°C		
		FLUX: ROXIN.. DIP TIME:10±0.5SECS. 		
VIBRATION TEST (LOW FREQUENCY)	1.AMPLITUDE: 1.5 mm 2.FREQUENCY: 10-55-10HZ / 1 MIN 3.DIRECTION: X, Y, Z 4.DURATION: 2 HRS/X, Y, Z			
SHOCK TEST	INDUCTORS SHOULD BE DROPPED 10 TIMES FROM A HEIGHT OF 1m ONTO 3cm WOODEN BOARD.			

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TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS
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**CLIMATIC TEST**

TEMPERATURE CHARACTERISTIC	1.APEARANCE:NO DAMAGE  2.INDUCTANCE:WITHIN±10% OF INITIAL VALUE.	- 40°C ~ +125°C	
HUMIDITY TEST		60°C±2°C / 96±2 HOURS	
LOW TEMPERATURE STORAGE		1.TEMPERATURE:- 25°C±2°C 2.TIME: 96±2 HOURS	
THERMAL SHOCK TEST		1.-25±5°C FOR 30 MINUTES. +80±5°C FOR 30 MINUTES. 2.TOTAL: 10 CYCLES	
HIGH TEMPERATURE STORAGE		1.APPLIED CURRENT: MAX RATED CURRENT 2.TEMPERATURE:80°C±2°C	

NOTE : INDUCTORS ARE TO BE TESTED AFTER 2 HOUR AT ROOM TEMPERATURE.

**LIFE TEST**

HIGH TEMPERATURE LOAD LIFE TEST	INDUCTORS SHOULD BE NO EVIDENCE OF SHORT OR OPEN CIRCUIT	1. TEMPERATURE: 80±2°C 2. TIME: 500±12 HOURS 3. LOAD: ALLOWED DC CURRENT
HUMIDITY LOAD LIFE TEST		1. TEMPERATURE: 60±2°C 2. R.H.: 90-95% 3. TIME: 500±12 HOURS 4. LOAD: ALLOWED DC CURRENT

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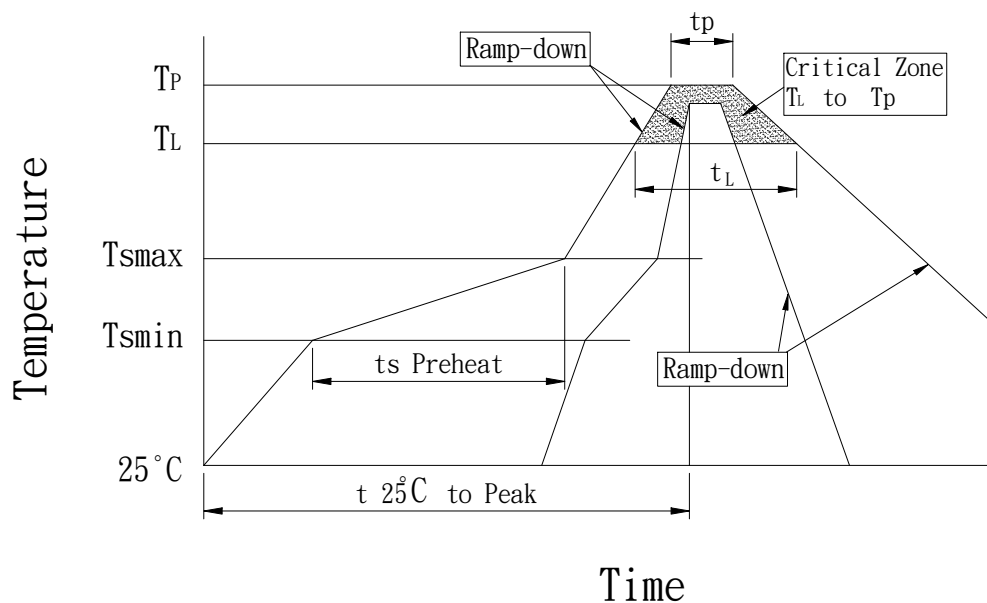
**RECOMMENDED SOLDERING CONDITIONS :**

CLASSIFICATION REFLOW PROFILES

Profile Feature	Sn-Pb Eutectic Assembly		Pb-Free Assembly	
	Large Body	Small Body	Large Body	Small Body
Average ramp-up rate ( $T_L$ to $T_P$ )	3°C/second max.		3°C/second max.	
Preheat				
-Temperature Min ( $T_{smin}$ )	100°C		150°C	
-Temperature Min ( $T_{smax}$ )	150°C		200°C	
-Time (min to max) (ts)	60-120 seconds		60-180 seconds	
$T_{smax}$ to $T_L$				
-Ramp-up Rate			3°C/second max.	
Time maintained above:				
-Temperature ( $T_L$ )	183°C		217°C	
-Time ( $t_L$ )	60-150 seconds		60-150 seconds	
Peak Temperature ( $T_p$ )	225 +0/-5°C	240 +0/-5°C	245 +0/-5°C	255 +5/-5°C
Time within 5°C of actual Peak Temperature ( $t_p$ )	10-30 seconds	10-30 seconds	10-30 seconds	20-40 seconds
Ramp-down Rate	6°C/second max.		6°C/second max.	
Time 25°C to Peak Temperature	6 minutes max.		8 minutes max.	

Note : All temperatures refer to topside of the package. Measured on the package body surface.

REFLOW SOLDERINGS



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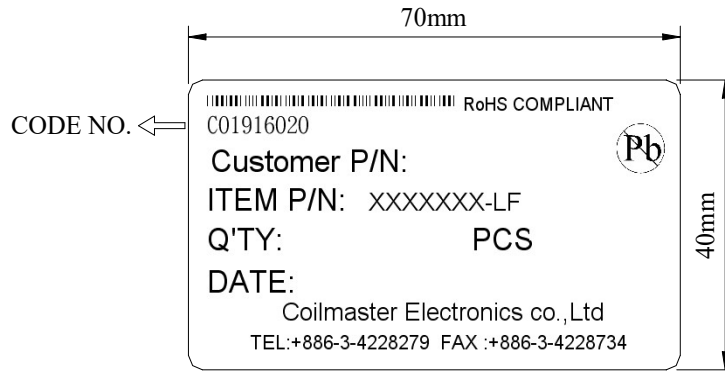
**PACKAGE :**

INNERTRAY		OUTER CARTON		OUTER CARTON	
Q TY(PCS)	SIZE(cm)	Q TY(PCS)	SIZE(mm)	WEIGHT(Kg)	Q TY(PCS)
160Pcs		2,560Pcs	385*385*240	5.60	2,560Pcs

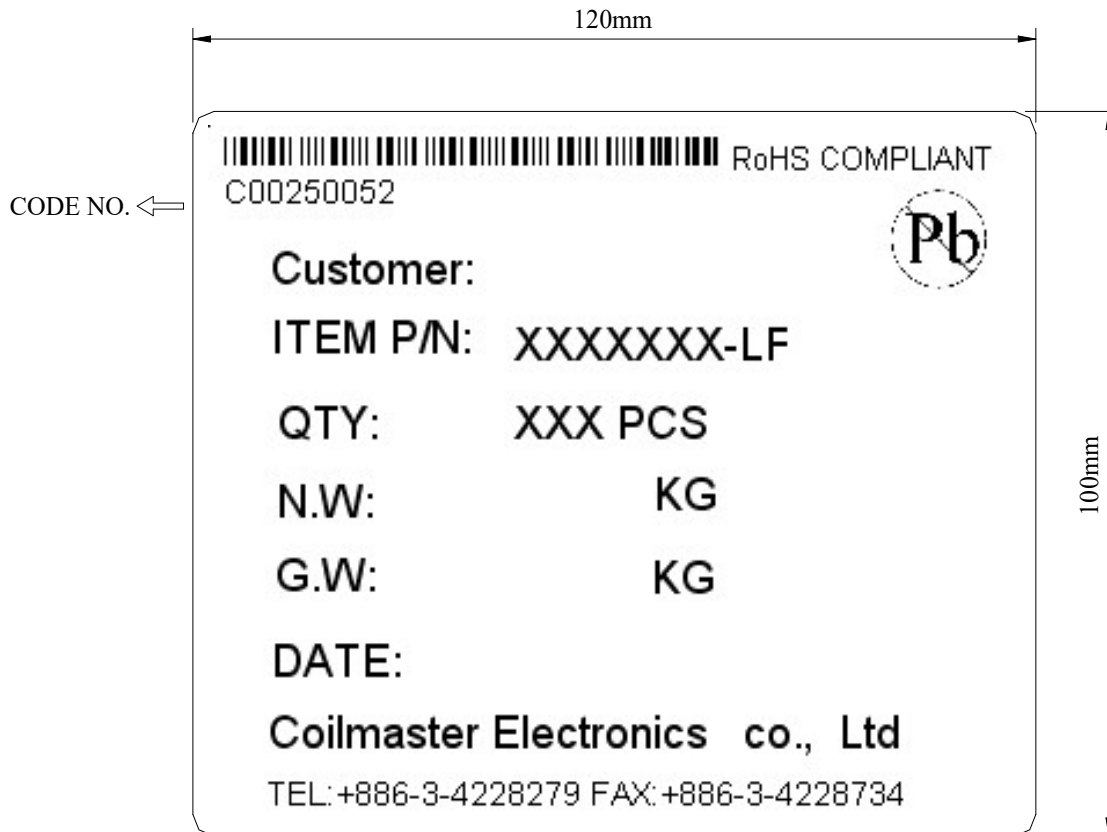
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**TABLE :**



INNER BOX LABEL



OUT BOX LABEL