



Coilmaster



RoHS Compliant

SPECIFICATION APPROVAL

CUSTOMER : SEA

PRODUCT : RCB0810P-221K-LF

Pb-free

CODE NO. : C04408131

CUS. CODE :

SPEC.NO. : C-4408-131(00)

CUSTOMER APPROVAL

Coilmaster Electronics Co., Ltd.

9F-3,NO.398 HUAN BEI ROAD, CHUNG-LI CITY

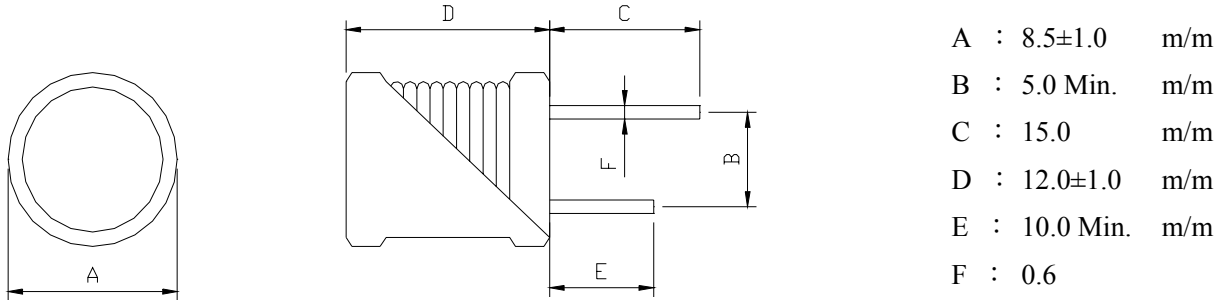
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PREPARED BY	APPROVED BY	AUTHORIZED BY
JEAN	TONY	MASCOT

CUSTOMER	SEA	COIL SPECIFICATION	SPEC. NO.	C-4408-131(00)
CUS. P/N	0		CODE NO.	C04408131
PRODUCT	RCB0810P-221K-LF		DATE	6/27/06

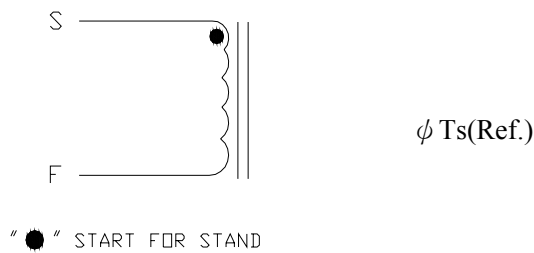
EXTERNAL DIMENSIONS :



ELECTRICAL CHARACTERISTIC :

L(μ H) : 220±10% 796KHz WITH PVC TUBE
 DCR(Ω) : 0.62 Max.
 IDC(A) : 300 Max. (L300A MAX \geq 0Ax90%)
 INDUCTANCE DROP :10% MAX @ IDC 300 A

SCHEMATIC DRAWING :



MATERIAL LIST :

NO	ITEM	MATERIAL	SUPPLIER OF THE MATERIAL
1	CORE		
2	WIRE		
3	TUBE		

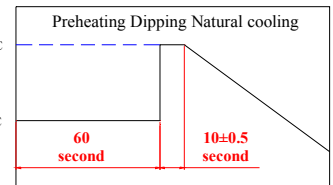
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TEST DATA

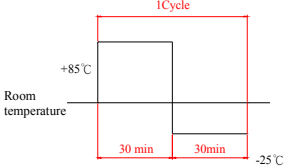
ELECTRICAL CHARACTERISTICS							
MEAS. ITEM	L(μH)	DCR(Ω)	IDC(A)				
TEST FREQ.	796KHz	Max.	Max.				
YOUR			L(0.3A)				
SPEC.	220±10%	0.62	≥ 0Ax90%				
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
X							
R							

DIMENSION							
MEAS. ITEM	A	B	C	D	E		
TEST FREQ.	m/m	m/m	m/m	m/m	m/m		
YOUR							
SPEC.	8.5±1.0	5.0 Min.	15	12.0±1.0	10.0 Min.		
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
X							
R							

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TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS		
<u>ELECTRICAL PERFORMANCE TEST</u>				
L	REFER TO STANDARD ELECTRICAL CHARACTERISTIC LIST.	CH-1061 OR EQUIV.		
DCR		CH-502A OR EQUIV		
RATED CURRENT		APPLIED THE CURRENT TO COILS THE INDUCTANCE CHANGE SHOULD BE LESS THAN 10% TO INITIAL VALUE AND TEMPERATURE RISE SHOULD NOT BE MORE THAN 40°C..		
TEMPERATURE RISE TEST	40°C MAX (Δt)	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.		
<u>MECHANICAL PERFORMANCE TEST</u>				
SOLDER HEAT RESISTANCE	1. INDUCTORS SHOULD HAVE NO EVIDENCE OF ELECTRICAL AND MECHANICAL DAMAGE 2. INDUCTANCE SHOULD NOT CHANGE MORE THAN $\pm 10\%$ 3. SOLDER MATERIAL WILL BE LEAD FREE.	PREHEAT: 150°C 60SECS SOLDER TEMPERATURE: 255 \pm 5°C FLUX: ROXIN.. DIP TIME: 10 \pm 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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<u>CLIMATIC TEST</u>				
TEMPERATURE CHARACTERISTIC	1. APPEARANCE: NO DAMAGE 2. INDUCTANCE: WITHIN $\pm 10\%$ OF INITIAL VALUE.	- 40°C ~ +85°C		
HUMIDITY TEST		60°C $\pm 2^\circ\text{C}$ / 96 ± 2 HOURS		
LOW TEMPERATURE STORAGE		1. TEMPERATURE: - 25°C $\pm 2^\circ\text{C}$ 2. TIME: 96 ± 2 HOURS		
THERMAL SHOCK TEST		1. -25 $\pm 5^\circ\text{C}$ FOR 30 MINUTES. +80 $\pm 5^\circ\text{C}$ FOR 30 MINUTES. 2. TOTAL: 10 CYCLES 		
HIGH TEMPERATURE STORAGE		1. APPLIED CURRENT: MAX RATED CURRENT 2. TEMPERATURE: 80°C $\pm 2^\circ\text{C}$		
NOTE : INDUCTORS ARE TO BE TESTED AFTER 2 HOUR AT ROOM TEMPERATURE.				
<u>LIFE TEST</u>				
HIGH TEMPERATURE LOAD LIFE TEST	INDUCTORS SHOULD BE NO EVIDENCE OF SHORT OR OPEN CIRCUIT	1. TEMPERATURE: 80 $\pm 2^\circ\text{C}$ 2. TIME: 500 ± 12 HOURS 3. LOAD: ALLOWED DC CURREN		
HUMIDITY LOAD LIFE TEST		1. TEMPERATURE: 60 $\pm 2^\circ\text{C}$ 2. R.H.: 90-95% 3. TIME: 500 ± 12 HOURS 4. LOAD: ALLOWED DC CURREN		

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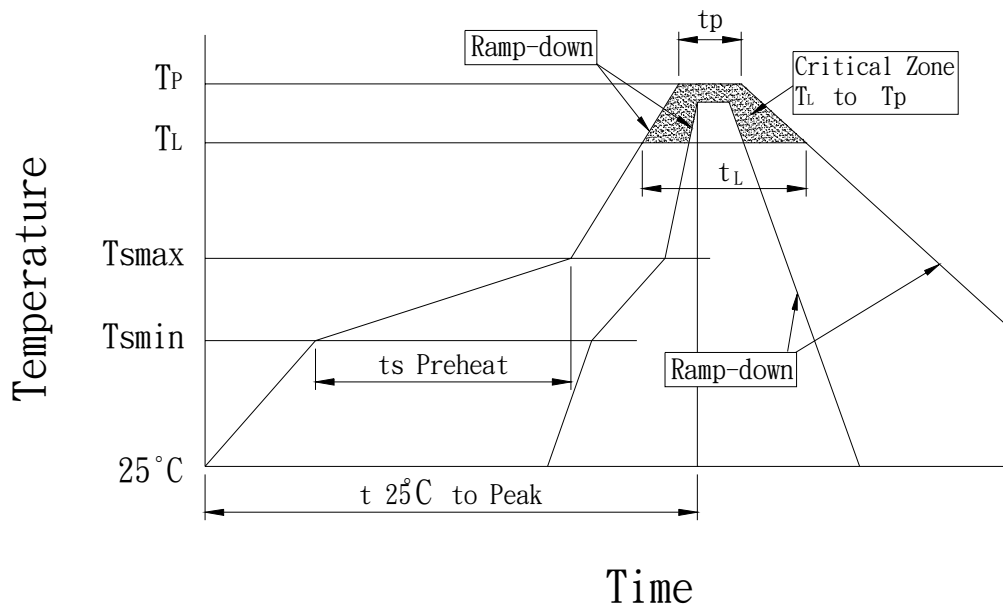
RECOMMENDED SOLDERING CONDITIONS :

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 ($T_{s_{min}}$)	100°C		150°C	
-Temperature Min ($T_{s_{max}}$)	150°C		200°C	
-Time (min to max) (ts)	60-120 seconds		60-180 seconds	
$T_{s_{max}}$ 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.	

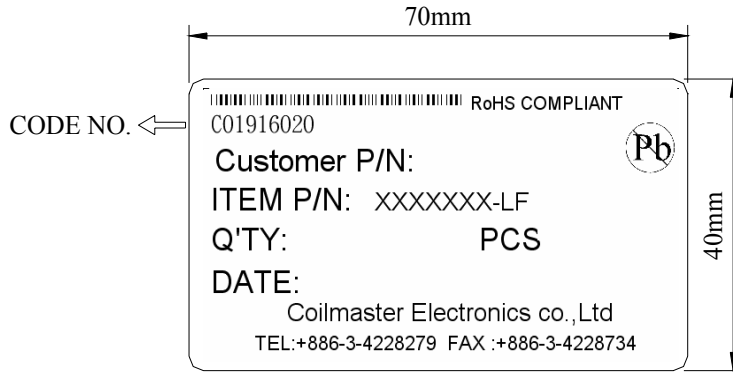
Note : All temperatures refer to top side of the package. Measured on the package body surface.

REFLOW SOLDERINGS

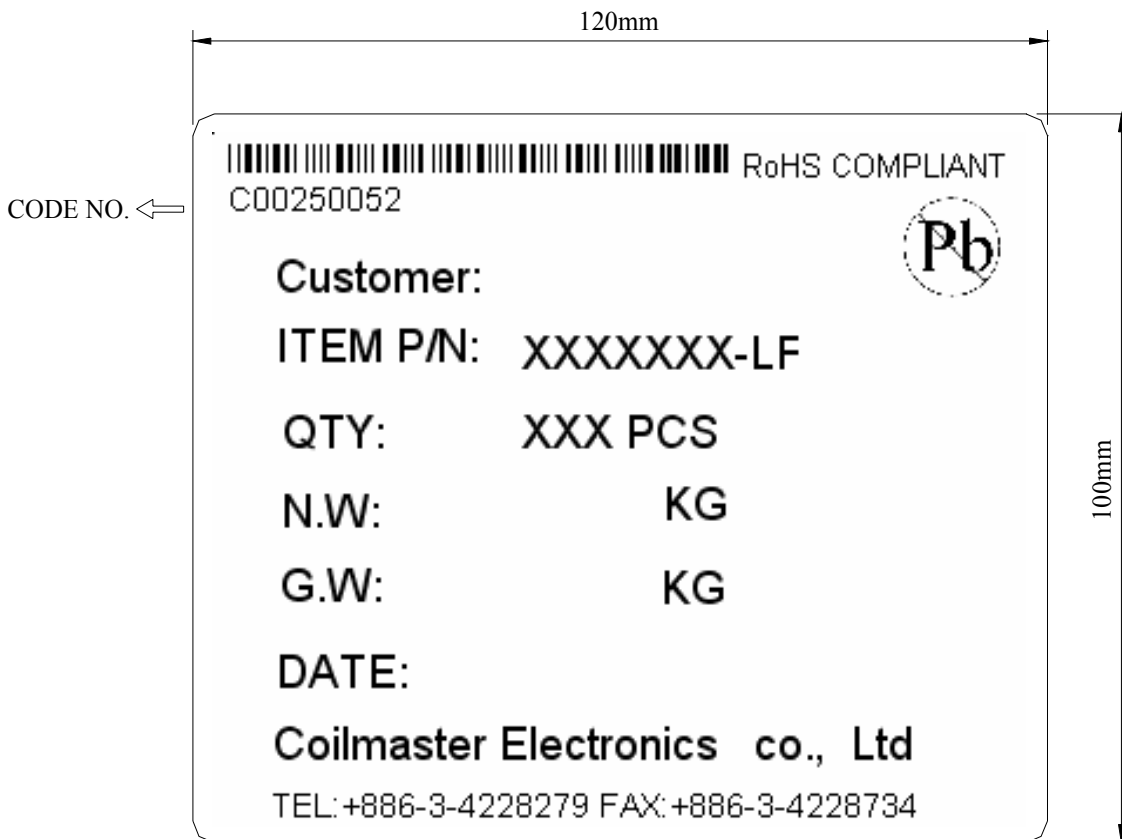


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TABLE :



INNER BOX LABEL



OUT BOX LABEL

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