

Coilmaster



SPECIFICATION APPROVAL

CUSTOMER	:	Ozdisan
PRODUCT	:	RCB0810HP-102K-LF
		Pb-free
CODE NO.	:	C04408163
CUS. CODE	:	
SPEC.NO.	:	C-4408-163(02)
DATE	:	11-Aug-06
C	US	TOMER APPROVAL

Coilmaster Electronics Co., Ltd.

3F ,NO.211 HUAN BEI ROAD, CHUNG-LI DISTRICT TAOYUAN CITY, TAIWAN.

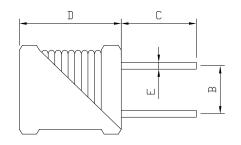
TEL: (886)34228279 FAX: (886)34525688

PREPARED BY	APPROVED BY	AUTHORIZED BY
JEAN	TONY	MASCOT

PRODUCT	RCB0810HP-102K-LF	COIL	DATE	2006/8/11
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EXTERNAL DIMENSIONS:





A : 9.5 Max. m/m B : 5.0±1.0 m/m C : 4.0±0.5 m/m

D : 11.5 Max. m/m E : 0.6 Ref. m/m

Marking on the top or TUBE

ELECTRICAL CHARACTERISTIC:

L(mH) : 1.0±10% 100KHz WITH PET TUBE

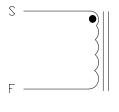
 $DCR(\Omega)$: 2.20 Max.

IDC(A): 0.43 Max. (L0.43A MAX \geq 0Ax90%)

INDUCTANCE DROP: 10% MAX @ IDC 0.43 A

Operating Temperature Range : -40° C $\sim +125^{\circ}$ C

SCHEMATIC DRAWING:



 ϕ 0.2x178.5Ts(Ref.)

"●" START FOR STAND

MATERIAL LIST:

NO	ITEM	MATERIAL	SUPPLIER OF THE MATERIAL
1	CORE	MGB1 DR2W8*10RN B4.2 F6 P5	TAK
2	WIRE	ф0.2 2SFFW(180°С)	JSW / UL No. E174837
3	TUBE	РЕТф8*14mm±0.3-0-N(W=0.025mm)	YUN LIN
4			

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TEST DATA

			ELECTRIC	AL CHARAC	TERISTICS		
MEAS. ITEM	L(mH)	DCR(Ω)	IDC(A)				
TEST FREQ.	100KHz	Max.	Max.				
YOUR			L(0.43A)				
SPEC.	1.0±10%	2.2	≥0Ax90%				
1	1.030	1.81	0.980				
2	1.030	1.80	0.980				
3	1.010	1.81	0.980				
4	1.030	1.82	0.960				
5	1.030	1.82	0.980				
6	1.030	1.81	0.980				
7	1.030	1.81	0.980				
8	1.020	1.81	0.970				
9	1.020	1.81	0.970				
10	1.030	1.81	0.980				
Х	1.026	1.811	0.976				
R	0.02	0.02	0.02				

				DIMENSION		
MEAS. ITEM	Α	В	С	D	E	
TEST FREQ.	m/m	m/m	m/m	m/m	m/m	
YOUR						
SPEC.	9.5 Max.	5.0±1.0	4.0±0.5	11.5 Max.	0.6 Ref.	
1	8.18	4.85	3.83	10.36	0.55	
2	8.63	4.83	3.92	10.39	0.56	
3	8.69	4.97	4.06	10.41	0.55	
4	8.67	5.00	3.93	10.46	0.50	
5	8.61	4.90	3.80	10.36	0.55	
6						
7						
8						
9						
10						
Х	8.556	4.910	3.908	10.396	0.542	
R	0.51	0.17	0.26	0.10	0.06	

PRODUCT RCB0810		HP-102K-LF	-102K-LF COIL		DATE	2006/8/11
SPEC.NO.	C.NO. C-4408-163(02) SPECIFIC		SPECIFICA	TION	CODE NO	. C04408163
TEST ITEMS		SPE	CCIFICATIONS	TEST	CONDITION	S / TEST METHODS
ELECTRICAL P	ERFORMA	ANCE TEST				
L				CH-1061 OR 1	EQUIV.	
DCR				CH-502A OR	EQUIV	
RATED CURRENT		1	TANDARD ELEC-TRICAL RISTIC LIST.	-		
TEMPERATURERI	SE TEST	40°C MAX (2	∆t)			DC CURRENT FOR 4 HOUE
				THERMOM	METER.	
OVER LOAD TEST		NO EVIDENCE OF ELECTRICAL DAMAGE		APPLIED 1.5 TIMES OF RATED ALLOWED DC CURRE TO INDUCTORS FOR A PERIOD OF 5 MINUTES.		
MECHANICAL .	PERFORM	ANCE TEST	<u>r</u>			
				PREHEAT:15	50°C 60SECS	
				SOLDER TEMPERATURE:		
SOLDER HEAT RESISTANCE				SOLDER TEN	MPERATURE:	
SOLDER HEAT RE	SISTANCE			SOLDER TEN 255±5℃	MPERATURE:	Preheating Dipping Natural cooling
SOLDER HEAT RE	SISTANCE	1	RS SHOULD HAVE NO OF ELEC- TRICAL AND		255°C	Preheating Dipping Natural cooling
SOLDER HEAT RE	SISTANCE	EVIDENCE (OF ELEC- TRICAL AND LL DAMAGE 2. INDUCTANCE	255±5℃	255°C	
SOLDER HEAT RE	SISTANCE	EVIDENCE O MICHANICA SHOULD NO 10%	OF ELEC- TRICAL AND LL DAMAGE	255±5°C FLUX: ROXII	255°C	60 10±0.5
	SISTANCE	EVIDENCE O MICHANICA SHOULD NO 10%	OF ELEC- TRICAL AND AL DAMAGE 2. INDUCTANCE OT HANGE MORE THAN± 3.	255±5°C FLUX: ROXII DIP TIME:10=	255°C	60 10±0.5 second
VIBRATION TEST		EVIDENCE O MICHANICA SHOULD NO 10% SOLDER MA	OF ELEC- TRICAL AND AL DAMAGE 2. INDUCTANCE OT HANGE MORE THAN± 3.	255±5°C FLUX: ROXII DIP TIME:10=	255°C N 150°C ±0.5SECS. DE: 1.5 mm CY: 10-55-10HZ	60 10±0.5 second
SOLDER HEAT RE VIBRATION TEST (LOW FREQUENC		EVIDENCE O MICHANICA SHOULD NO 10% SOLDER MA	OF ELEC- TRICAL AND AL DAMAGE 2. INDUCTANCE OT HANGE MORE THAN± 3.	255±5°C FLUX: ROXII DIP TIME:10= 1.AMPLITUD 2.FREQUENC 3.DIRECTION	255°C N 150°C ±0.5SECS. DE: 1.5 mm CY: 10-55-10HZ	60 10±0.5 second / 1 MIN

PRODUCT	RCB0810HP-102K-LF			DATE	2006/8/11
SPEC.NO.	C-4408-163(02)	SPECIFI	FICATION CODE NO. C0440		
TEST ITEM	S SPECIFI	CATIONS	TEST CO	ONDITIONS / TE	ST METHODS
CLIMATIC TEST	-				
TEMPERATURE CHARACTERISTIC			- 40°C ∼+125°C		
HUMIDITY TEST			60°C±2°C / 96±2 HOURS		
LOW TEMPERATUR STORAGE	1.APPEARANCE:N	2.TOTAL: 10 CY			
THERMAL SHOCK TEST	OF INITIAL VALU			R 30 MINUTES. Room	
HIGH TEMPERATU STORAGE	RE			1.APPLIED CURRENT: MAX RATED CURRENT 2.TEMPERATURE:80°C±2°C	
NOTE : INDUCTOR	S ARE TO BE TESTED A	FTER 2 HOUR AT RO	L OOM TEMPERATURI	Ξ.	
LIFE TEST					
HIGH TEMPERATU LOAD LIFE TEST	INDUCTORS SHO		1. TEMPERATURE: 2. TIM DC CURREN	80±2℃ IE: 500±12 HOURS	3. LOAD: ALLOWED
HUMIDITY LOAD L TEST	EVIDENCE OF SH CIRCUIT	OKT OK OPEN	1. TEMPERATURE:	2. R.H.: 90-95%	3. TIME: 500±12 HOURS 4.
			LOAD: ALLOWED I	OC CURREN	

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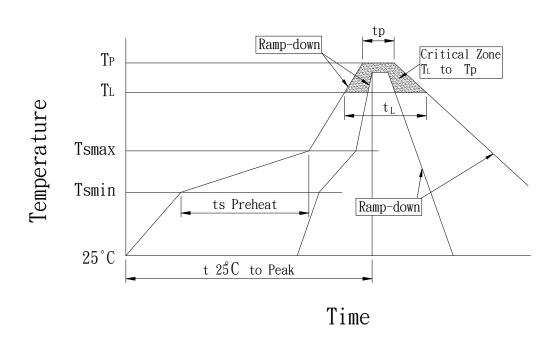
RECOMMENDED SOLDERING CONDITIONS:

CLASSIFICATION REFLOW PROFILES

Beeffe Frakes	Sn-Pb Euteo	tic Assembly	Pb-Free Assembly	
Profile Feature	Large Body	Small Body	Large Body	Small Body
Average ramp-up rate (T _L to T _P)	3℃/seco	ond max.	3°C/seco	ond max.
Preheat -Temperature Min (Ts _{min}) -Temperature Min (Ts _{max}) -Time (min to max) (ts)	100℃ 150℃ 60-120 seconds		20	0℃ 0℃ seconds
Tsmax to T∟ -Ramp-up Rate			3°C/seco	ond max.
Time maintained above: -Temperature (T_L) -Time (t_L)	183°⊜ 60-150 seconds		217°C 60-150 seconds	
Peak Temperature (Tp)	225 +0/-5℃	240 +0/-5℃	245 +0/-5℃	255 +5/-5℃
Time within 5℃ of actual Peak Temperature (tp)	10-30 seconds	10-30 seconds	10-30 seconds	20-40 seconds
Ramp-down Rate	6℃/seco	6℃/second max.		ond max.
Time 25℃ to Peak Temperature	6 minut	es max.	8 minut	es max.

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

REFLOW SLODERINGS



COILMASTER ELECTRONICS CO., LTD.

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CODE NO. COD	SPEC.NO.	C-4408-163(02)	SPECIFICATION	CODE NO.	C04408163
	LABLE :	CODE NO. COD	70mm Toler P/N: Telestonics co., Ltd Telestonics c	T Pb mm04	
		TEL:+86	36-3-4228279 FAX:+886-3-4	228734	

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Cautions and Warnings:

- 1. All of the components are manufactured, designed, and promoted for applying in general electronics devices, for the specific area such as automotive, medical, military and aerospace except for general electronic devices, Coilmaster must be asked for written approval before incorporating the components into these areas.
- 2. The components that will be used in high-reliability / high level of safety applications should be pre-evaluated by the end customer.

Especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health.

The customer shall be responsible for evaluating and confirming Coilmaster product is suitable for use in customer's applications.

- 3. Customer must be cautioned to verify that data sheets are the updated ones before placing orders. In the individual cases, any trouble or failure of electronic components happens during their long span cannot be eliminated even follow the instruction with existing technology.
- 4. Washing / Cleaning process may jeopardize the product and cause the defect. Washing agents may harm the long-term functionality of the product
- 5. The storage period should not be longer than 12 months (In the specific storage environment). The oxidization may happen on the terminals.

 Hence all the products shall be used within 12 months after the shipping date. If the time is over 12 months, please check the solderability before use it.
- 6. Products should not be kept in unsuitable storage conditions, such as areas susceptible to high humidity, high temperatures, dust or corrosion.
- 7. Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.
- 8. Don't bend the terminals or subject them to excessive stress.
- 9. Please ensure that all terminals and case lugs are completely fixed with solder onto PCB
- 10. Ensure the tuning slug or cap is not fixed by solder flux during the production process.
- 11. Avoid placing coils near the edge of the PCB
- 12. Don't touch any exposed winding part and avoid coming into contact with the guide of the electrode in automatic mounting
- 13. The inductor / coil / common mode choke generates heat when current is applied. Please take care of this during the design.
- 14. Always handle the product with care to prevent the damage.
- 15. Our specification specifies the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

 Even for customized products, conclusive validation of the component in the circuit can only be carried out by customer.
- 16. The general testing condition is in the room temperature 25 +/- 5°C and humidity under 65% RH, which is applied to all products.
- 17. If have any query, please feel free to contact our sales department.