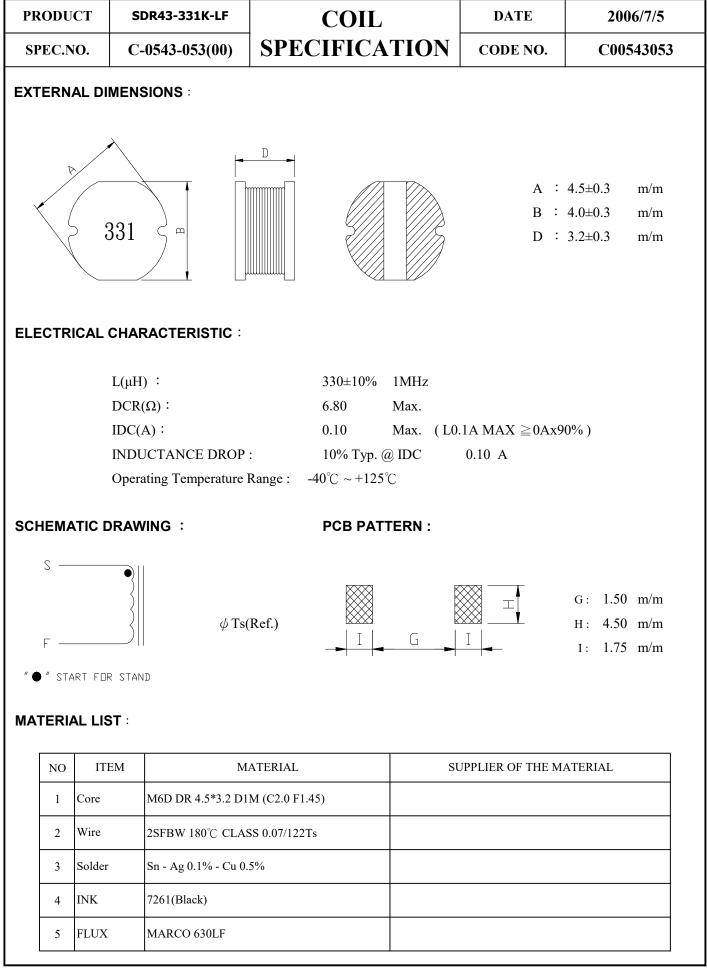


Coilmaster



CUSTOMER :	Ozdisan	
PRODUCT :	SDR43-331K-LF	
	Pb-free	
CODE NO. :	C00543053	
CUS. CODE :		
SPEC.NO. :	C-0543-053(00)	
DATE :	5-Jul-06	
CUSTO	MER APPROVAL	
Coilmaster Electr	onics Co., Ltd.	
3F ,NO.211 HUAN BEI	ROAD, CHUNG-LI DISTRICT	
TAOYUAN CITY, TAIV		
ГАОYUAN CITY, TAIV ГЕL: (886)34228279		

PREPARED BY	APPROVED BY	AUTHORIZED BY
JEAN	ΤΟΝΥ	MASCOT



R	6.00	0.18	0.00				
						•	
				DIMENSION			
MEAS. ITEM	А	В	С	D			
TEST FREQ.	m/m	m/m	m/m	m/m			
YOUR							
SPEC.	4.5±0.3	4.0±0.3		3.2±0.3			
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
Х	#DIV/0!	#DIV/0!		#DIV/0!			
R	0.00	0.00		0.00			

ELECTRICAL CHARACTERISTICS								
MEAS. ITEM	L(µH)	DCR(Ω)	IDC(A)					
TEST FREQ.	1MHz	Max.	Max.					
YOUR			L(0.1A)					
SPEC.	330±10%	6.8] ≧0Ax90%					
1	336.0	4.670						
2	334.0	4.720						
3	337.0	4.750						
4	331.0	4.660						
5	337.0	4.620						
6	337.0	4.750						
7	331.0	4.800						
8	336.0	4.770						
9	331.0	4.720						
10	334.0	4.780						
Х	334.40	4.724	#DIV/0!					
R	6.00	0.18	0.00					

PRODUCT	SDR43-331K-LF	COIL	DATE	2006/7/5
SPEC.NO.	C-0543-053(00)	SPECIFICATION	CODE NO.	C00543053

TEST DATA

PRODUCT	SDR43-	-331K-lf COIL			DATE	2006/7/5		
SPEC.NO.	C-0543	-053(00)	SPECIFICA	TION	CODE NO.	C00543053		
TEST IT	EMS	SPE	ECIFICATIONS	TEST	CONDITIONS /	TEST METHODS		
ELECTRICAL P	ERFORMA	NCE TEST		·				
L				CH-1061 OR	EQUIV.			
DCR				CH-502A OR	EQUIV			
RATED CURRENT		REFER TO STANDARD ELEC-TRICAL CHARACTERISTIC LIST.		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				
				1. APPLIED 7	THE ALLOWED DC	C CURRENT FOR 4 HOURS.		
TEMPERATURERISE TEST		40°C MAX (△t)		2. TEMPERATURE MEASURE BY DIGTAL 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 I</u>	PERFORM	ANCE TEST	<u>r</u>	1				
				PREHEAT:15	0°C 60SECS			
SOLDER HEAT RES	SISTANCE			SOLDER TEN	MPERATURE:	Preheating Dipping Natural cooling		
				255±5℃	255°C — —			
		1. INDUCTORS SHOULD HAVE NO EVIDENCE OF ELEC- TRICAL AND MICHANICAL DAMAGE 2. INDUCTANCE SHOULD NOT HANGE MORE THAN±		FLUX: ROXI	N 150°C	60 10±0.5		
				DIP TIME:10		second second		
		10% 3. SOLDER MATERIAL WILL BE LEAD		1.AMPLITUDE: 1.5 mm				
VIBRATION TEST (LOW FREQUENCY)		FREE.		2.FREQUENCY: 10-55-10HZ / 1 MIN				
	Y)			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.			
		1		1				

PRODUCT S	SDR43-331K-LF		COIL	DATE	2006/7/5
SPEC.NO.	C-0543-053(00)	SPEC	IFICATION	CODE NO.	C00543053
TEST ITEMS	SPECIFICA	TIONS	TEST CON	DITIONS / TEST	METHODS
MECHANICAL PER	FORMANCE TEST	<u>r</u>			
SOLDERABILITY TEST	MORE THAN 90% (TERMINAL ELECT SHOULD BE COVE SOLDER.	RODE	AFTER FLUXING, INDUC BE DIPPEDIN A MELTED BATH AT 255±5℃ FOR 5 \$	SOLDER	Preheating Dipping Natural cooling 60 4 ±0.5 second second
COMPONENT ADHESION (PUSH TEST)	1.5Kg Min		THE DEVICE SHOULD BI SOLDERED (255±5°C FOF SECONDS) TO A TINNED SUBSTRATE. A DYNOME GAUGE SHOULD BE APPI THE SIDE OF THE COMPO DEVICE MUST WITH- STA MINIMUM FORCE OF 1.5I WITHOUT AILURE OF TH TERMINATION . ATTACH COMPONENT.	R 10 COPPER TER FORCE LIED TO DNENT. THE AND A Cg E	DL DER LASS FPDY SUBSTRATE TTH COPPER CLAD
COMPONENT ADHESION (PULL TEST)	1.5Kg Min		1.INSERT 10cm WIRE INT REMAINING OPEN EYE B ENDS OF EVEN WIRE LEI UPWARD AND WIND TOO 2. TERM SHALL NOT BEREMARKA DAMAGED	EEND THE NGTHS GETHER IINAL	
FLEXTURE STRENGTH	THE FORCES APPI SHOULD NOT DAN DIELECTRIC.		SOLDER A CHIP ON A TE SUBSTRATE, BEND THE S BY 2mm AND RETURN.		ASmm 45mm 45mm 100mm
RESISTANCE TO SOLVENT TEST	THERE SHOULD B CASEDEFORMATI CHANGE IN APPE BITERATION OF M	ON, ARANCE OR	INDUCTERS SHALL WITH	ISTAND 6 MINTES	OF ALCOHOL

PRODUCT	SE	DR43-331K-LF CO		OIL	DATE	2006/7/5		
SPEC.NO.	C-	0543-053(00)	-	CATION	C00543053			
TEST ITEMS		SPECIFI	CATIONS	TEST CONDITIONS / TEST METHODS				
CLIMATIC TEST	<u></u>			•				
TEMPERATURE CHARACTERISTIC				- 40°C ~+125°C				
HUMIDITY TEST	LOW TEMPERATURE		1.APPEARANCE:NO DAMAGE 2.INDUCTANCE:WITHIN±10%		60°C±2°C / 96±2 HOURS			
LOW TEMPERATURI STORAGE					1.TEMPERATURE:- 25℃±2℃ 2.TIME: 96±2 HOURS			
THERMAL SHOCK TEST		OF INITIAL VALUE.		125±5°C FOR 30 MINUTES. +85°C +80±5°C FOR 30 MINUTES. -85°C 2.TOTAL: 10 CYCLES -25°C				
HIGH TEMPERATU STORAGE	RE			1.APPLIED CURRENT: MAX RATED CURRENT 2.TEMPERATURE:80℃±2℃				
NOTE : INDUCTOR	S ARE	E TO BE TESTED AF	TER 2 HOUR AT RO	I DOM TEMPERATURI	Ξ.			
<u>LIFE TEST</u>								
		INDUCTORS SHOULD BE NO EVIDENCE OF SHORT OR OPEN CIRCUIT		1. TEMPERATURE: 80±2°C 2. TIME: 500±12 HOURS 3. LOAD: ALLOWED DC CURREN				
				1. TEMPERATURE: 60±2°C 2. R.H.: 90-95% 3. TIME: 500±12 HOURS 4.				
				LOAD: ALLOWED DC CURREN				

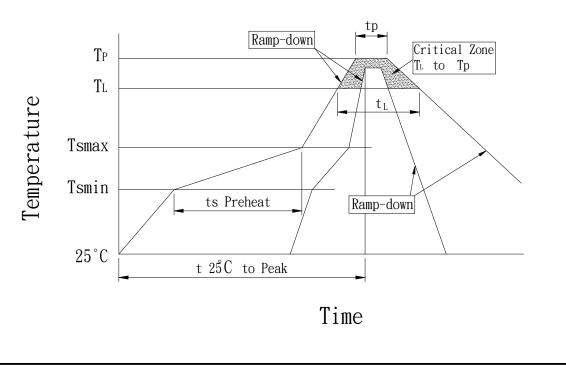
PRODUCT	SDR43-331K-LF	COIL	DATE	2006/7/5				
SPEC.NO.	C-0543-053(00)	SPECIFICATION	CODE NO.	C00543053				
RECOMMENDED SOLDERING CONDITIONS :								

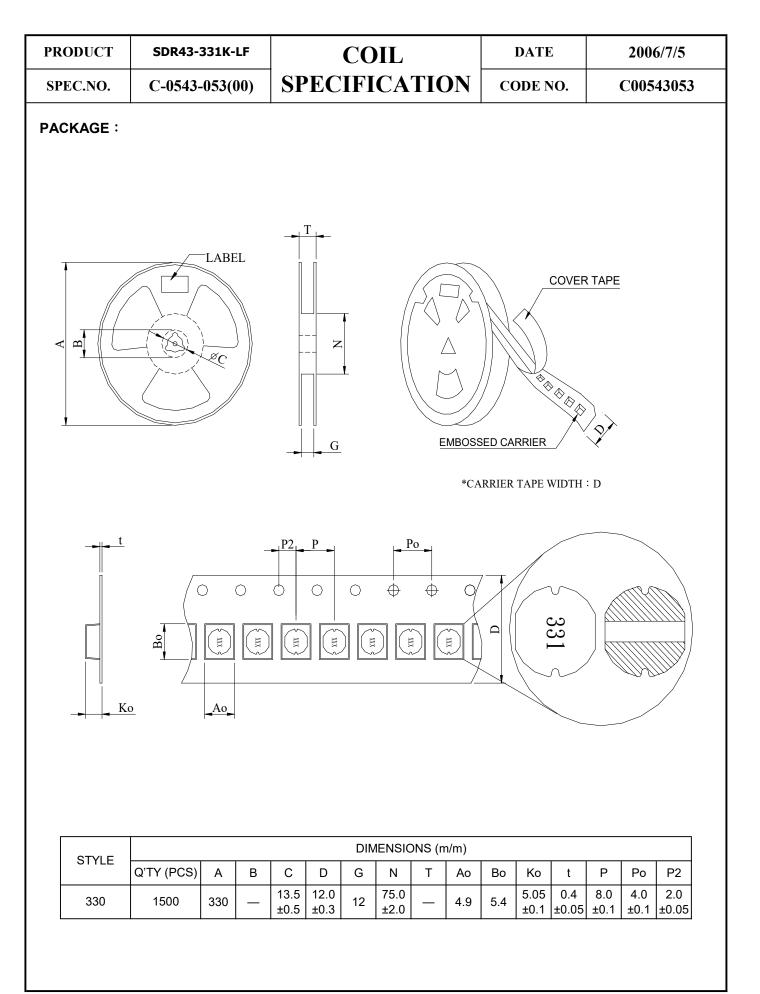
CLASSIFICATION REFLOW PROFILES

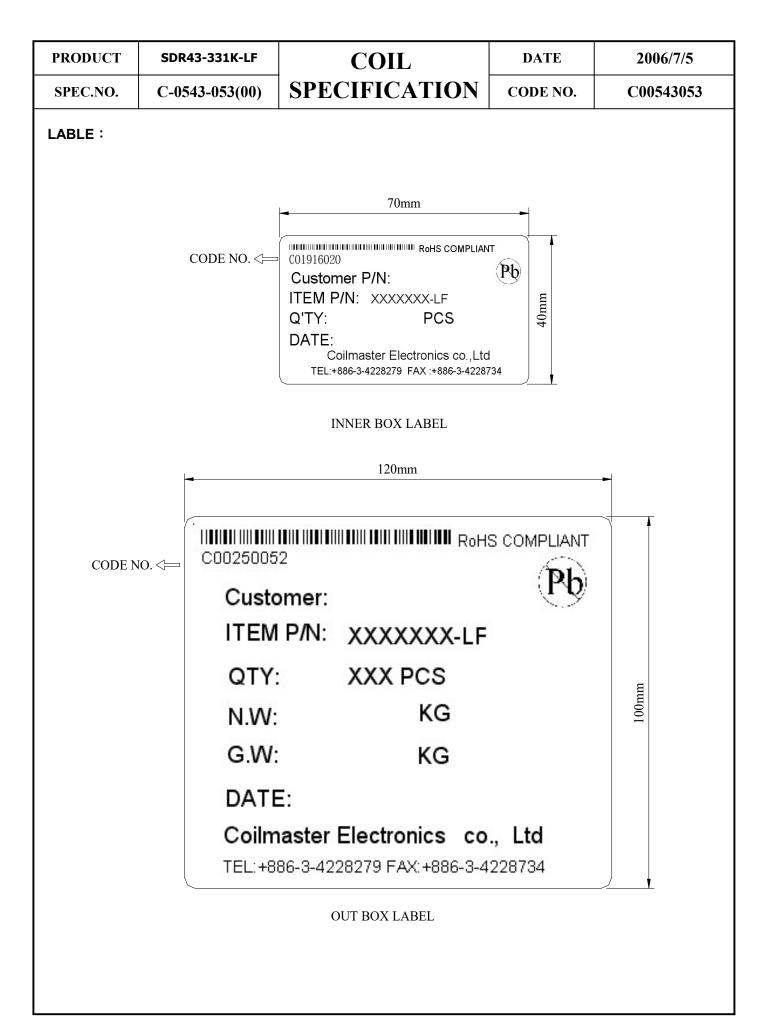
Profile Feature	Sn-Pb Euteo	tic Assembly	Pb-Free Assembly		
Profile Feature	Large Body Small Body		Large Body	Small Body	
Average ramp-up rate $(T_L \text{ to } T_P)$	3℃/sec	ond max.	3℃/second max.		
Preheat -Temperature Min (Ts _{min}) -Temperature Min (Ts _{max}) -Time (min to max) (ts)	15	0°C 0°C seconds	150℃ 200℃ 60-180 seconds		
Tsmax to T _L -Ramp-up Rate			3℃/second max.		
Time maintained above: -Temperature (T _L) -Time (t _L)	0.010.010.000	183℃ 60-150 seconds		7℃ 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 minutes max.		

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

REFLOW SLODERINGS







PRODUCT	SDR43-331K-LF	COIL	DATE	2006/7/5				
SPEC.NO.	C-0543-053(00)	SPECIFICATION	CODE NO.	C00543053				
Cautions and Warnings :								
 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 v	vill be used in high-reliability / high lev	vel of safety applications should be pre-evaluated by th	ne 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 confirm	ning Coilmaster product is suitable for use in custome	r's applications.					
3. Customer must be cau	tioned to verify that data sheets are t	the updated ones before placing orders. In the individu	al cases, any trouble or fai	lure of				
electronic components	happens during their long span cann	ot be eliminated even follow the instruction with existin	g technology.					
4. Washing / Cleaning pr	ocess may jeopardize the product an	d cause the defect. Washing agents may harm the lor	ng-term functionality of the	product				
5. The storage period she	ould not be longer than 12 months (In	the specific storage environment). The oxidization ma	ay 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, pleas	e check the solderability b	efore use it.				
6. Products should not be	kept in unsuitable storage condition	s, such as areas susceptible to high humidity, high ten	nperatures, dust or corrosio	on.				
7. Don't touch electrodes	directly with bare hands as oil secret	tions may inhibit soldering. Always ensure optimum co	nditions for soldering.					
8. Don't bend the termina	ls or subject them to excessive stres	s.						
9. Please ensure that all	erminals and case lugs are complete	ely fixed with solder onto PCB						
10. Ensure the tuning slu	g or cap is not fixed by solder flux du	ring the production process.						
11. Avoid placing coils ne	ar the edge of the PCB							
12. Don't touch any expo	sed winding part and avoid coming in	to contact with the guide of the electrode in automatic	mounting					
13. The inductor / coil / co	ommon mode choke generates heat	when current is applied. Please take care of this during	g the design.					
14. Always handle the pro	oduct with care to prevent the damag	e.						
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.								