



Part no. CMR895-331K-LF

330 $\mu H \pm 10\%$ Ferrite Leaded Inductor, 500mA Idc, 420m Ω Rdc

PECIFIC	CATION	APPROV
CUSTOMER :	BEC Di	stribution
PRODUCT :	CMR895	5-331K-LF
	Pb	-free
CODE NO. :	C047	89033
CUS. CODE :		
SPEC.NO. :	C-4789	-033(01)
DATE :	25-S	ep-06
CUS	STOMER APPRO	OVAL
er	C DISTRIBUTIC www.bec.co.u nail: sales@bec. one: +44(0)1844	k co.uk
PREPARED BY	APPROVED BY	AUTHORIZED BY
JEAN	ΤΟΝΥ	MASCOT



PRODU	CT CM	1R895-331K-LF	COIL		DATE	2006/9/25
SPEC.N	10. C	-4789-033(01)	SPECIFICA	ΓΙΟΝ	CODE NO.	C04789033
EXTERN		ISIONS :				
	331			0	B : C : D :	8.3 Max. m/m 5.0±0.5 m/m 5.0±1.0 m/m 9.5 Max. m/m 0.65±0.1 m/m
ELECTR	ICAL CHA					
" •		NCE DROP : Temperature Range WING : $\phi 0.3^{\circ}$	330±10% 1KHz 1V 0.61 Max. 0.51 Max. (L0.5 10% MAX @ IDC : -40°C ~ +125°C	1A MAX ≧ 0.51 A	OAx90%)	
NO	ITEM	M	ATERIAL	SU	IPPLIER OF THE M	ATERIAL
1	CORE	DL5 DR2W7.8x9.5R	SN B3.2 F5.0 P5.0	TAK TECHN	OLOGY CO., LTD.	
2	WIRE	NY-0320-2UEW		YIAXHENG>	XIN INDUSTRIAL C	0., LTD.
3	INKING	BLACK INKING				



RODUCT	CMR895	-331K-LF		COIL		DATE		2006/9/25
SPEC.NO.	C-4789	9-033(01) SPECIFICAT		TION	CODE NO.		C04789033	
ST DATA								
			ELECTRIC	AL CHARAC	TERISTICS			
MEAS. ITEM	L(µH)	DCR(Ω)	IDC(A)					
TEST FREQ.	1KHz 1V	Max.	Max.					
YOUR			L(0.51A)					
SPEC.	330±10%	0.61	\geq 0Ax90%					
1	325	0.473	302					
2	328	0.481	305					
3	326	0.479	303					
4	326	0.467	300					
5	329	0.465	306					
6	327	0.478	302					
7	326	0.477	303					
8	322	0.479	299					
9	320	0.475	294					
10	325	0.479	299					
Х	325.40	0.48	301.30					
R	9.00	0.02	12.00					
	•	•	-	•	·	•		
				DIMENSION	l			
MEAS. ITEM	А	В	С	D	E			
TEST FREQ.	m/m	m/m	m/m	m/m	m/m			
YOUR								
SPEC.	8.3 Max.	5.0±0.5	5.0±1.0	9.5 Max.	0.65±0.1			
1								
2								
3								
4								
	1			· · · · · · · · · · · · · · · · · · ·				

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PRODUCT CMR89		-331K-LF COIL		4	DATE	2006/9/25		
SPEC.NO.	C-4789	4789-033(01) SPECIFIC						
TEST ITEMS		SPE	SPECIFICATIONS		TEST CONDITIONS / TEST METHODS			
ELECTRICAL I	PERFORM.	ANCE TEST	_					
L DCR RATED CURRENT		REFER TO STANDARD ELEC- TRICAL CHARACTERISTIC LIST.		CH-1061 OR EQUIV.				
				CH-502A OR	EQUIV			
				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 HOUR		
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</u>	PERFORM	IANCE TEST	Г					
			_	PREHEAT:15	0°C 60SECS			
SOLDER HEAT R	ESISTANCE				0°C 60SECS MPERATURE:			
SOLDER HEAT R	ESISTANCE					Preheating Dipping Natural cooling		
SOLDER HEAT R	ESISTANCE		RS SHOULD HAVE NO	SOLDER TEN	MPERATURE:	60 10±0.5		
SOLDER HEAT RI	ESISTANCE	EVIDENCE (MICHANICA	RS SHOULD HAVE NO OF ELEC- TRICAL AND	SOLDER TEN 255±5°C	MPERATURE: 2550 - N 1500			
SOLDER HEAT R	ESISTANCE	EVIDENCE (MICHANICA 2. INDUCTA HANGE MOI 3. SOLDER M	RS SHOULD HAVE NO OF ELEC- TRICAL AND AL DAMAGE NCE SHOULD NOT RE THAN±10% MATERIAL WILL BE	SOLDER TEN 255±5℃ FLUX: ROXI	MPERATURE: 2550 - N 1500 ±0.5SECS.	60 10±0.5		
		EVIDENCE (MICHANICA 2. INDUCTA HANGE MOI	RS SHOULD HAVE NO OF ELEC- TRICAL AND AL DAMAGE NCE SHOULD NOT RE THAN±10% MATERIAL WILL BE	SOLDER TEN 255±5°C FLUX: ROXI DIP TIME:10 1.AMPLITUE	MPERATURE: 2550 - N 1500 ±0.5SECS.	60 10±0.5 second		
SOLDER HEAT R VIBRATION TEST LOW FREQUENC	Γ	EVIDENCE (MICHANICA 2. INDUCTA HANGE MOI 3. SOLDER M	RS SHOULD HAVE NO OF ELEC- TRICAL AND AL DAMAGE NCE SHOULD NOT RE THAN±10% MATERIAL WILL BE	SOLDER TEN 255±5°C FLUX: ROXI DIP TIME:10 1.AMPLITUE	MPERATURE: N 1997 ±0.5SECS. DE: 1.5 mm CY: 10-55-10HZ / 1	60 10±0.5 second second		
VIBRATION TEST	Γ	EVIDENCE (MICHANICA 2. INDUCTA HANGE MOI 3. SOLDER M	RS SHOULD HAVE NO OF ELEC- TRICAL AND AL DAMAGE NCE SHOULD NOT RE THAN±10% MATERIAL WILL BE	SOLDER TEN 255±5°C FLUX: ROXI DIP TIME:10 1.AMPLITUE 2.FREQUENC 3.DIRECTION	MPERATURE: N 1997 ±0.5SECS. DE: 1.5 mm CY: 10-55-10HZ / 1	60 10±0.5 second second		

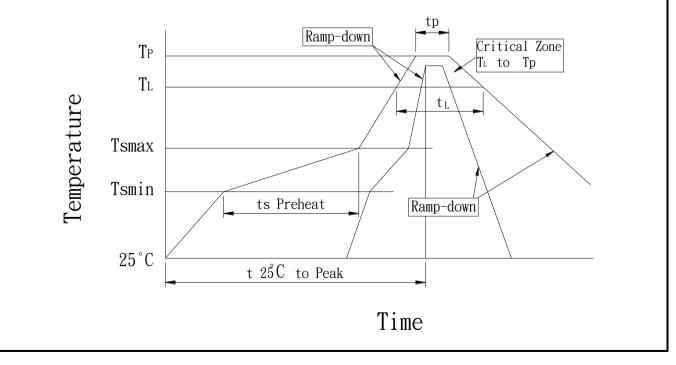


PRODUCT	CMR895-331K-LF	CC	DIL	DATE	2006/9/25		
SPEC.NO.	C-4789-033(01)	ł	CATION	CODE NO.	C04789033		
TEST ITEM	TEST ITEMS SPECIFICATIONS		TEST CONDITIONS / TEST METHODS				
CLIMATIC TEST	-						
TEMPERATURE CHARACTERISTIC			- 40°C ~ +125°C				
HUMIDITY TEST			60°C ±2°C / 96±2 HOURS				
LOW TEMPERATUR STORAGE	1.APPEARANCE:N 2.INDUCTANCE:W	1.APPEARANCE:NO DAMAGE 2.INDUCTANCE:WITHIN±10% OF INITIAL VALUE.		1.TEMPERATURE:- 25℃ ±2℃ 2.TIME: 96±2 HOURS			
THERMAL SHOCK TEST	INITIAL VALUE.			125±5°C FOR 30 MINUTES. +80±5°C FOR 30 MINUTES. 2.TOTAL: 10 CYCLES			
HIGH TEMPERATU STORAGE			1.APPLIED CURRE 2.TEMPERATURE:8		URRENT		
NOTE : INDUCTOR	S ARE TO BE TESTED AN	FTER 2 HOUR AT R	OOM TEMPERATUF	RE.			
<u>LIFE TEST</u>							
HIGH TEMPERATU LOAD LIFE TEST	INDUCTORS SHOU		1. TEMPERATURE: 2. TIME: 500±12 HC 3. LOAD: ALLOWE	OURS			
HUMIDITY LOAD L TEST	EVIDENCE OF SHO CIRCUIT	JKI UK UPEN	1. TEMPERATURE: 2. R.H.: 90-95% 3. TIME: 500±12 HC 4. LOAD: ALLOWE	OURS			

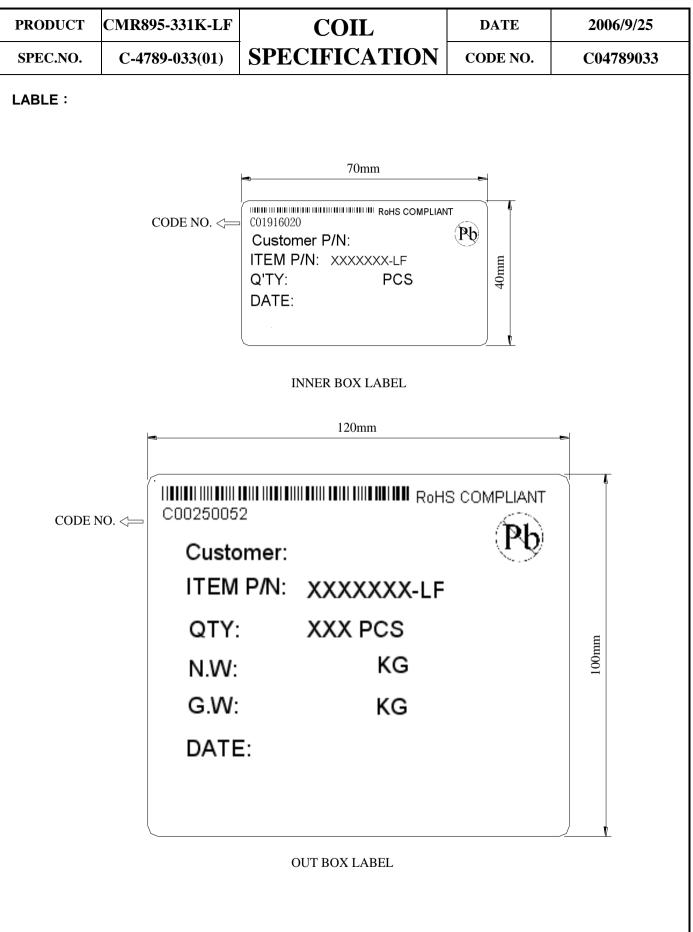


RODUCT CMR895-331K-L		CC	DIL	DATE	2006/9/25	
PEC.NO.	C-4789-033(01)	SPECIFICATION		CODE NO.	C04789033	
	DED SOLDERING CO	NDITIONS :				
		Sn-Pb Eutec	tic Assembly	Pb-Free A	Assembly	
Profile Feature		Large Body	Small Body	Large Body	Small Body	
Average ramp-up rate (T _L to T _P)		3℃/second max.		3℃/second max.		
Preheat -Temperature Min (Ts _{min}) -Temperature Min (Ts _{max}) -Time (min to max) (ts)		100℃ 150℃ 60-120 seconds		150℃ 200℃ 60-180 seconds		
Tsmax to T _L -Ramp-up R				3℃/seco	nd max.	
Time maintained above: -Temperature (T _L) -Time (t _L)		183℃ 60-150 seconds		217 60-150 s	÷	
Peak Temperature (Tp)		225 +0/-5℃	240 +0/-5℃	245 +0/-5℃	255 +5/-5℃	
Time within Temperature	5℃ of actual Peak ∋ (tp)	10-30 seconds	10-30 seconds	10-30 seconds	20-40 seconds	
	amp-down Rate 6°C/second max.		6℃/second max.			
Ramp-down	Nato			8 minutes max.		

REFLOW SLODERINGS









PRODUCT	CMR895-331K-LF	COIL	DATE	2006/9/25	
SPEC.NO.	C-4789-033(01)	SPECIFICATION	CODE NO.	C04789033	
Cautions and	d Warnings:				
. All of the components	are manufactured, designed, and p	romoted for applying in general electronics devices, f	or the specific area such a	S	
utomotive, medical, mil	itary and aerospace except for gene	ral electronic devices, BEC Distribution must be aske	ed for written approval befo	ore	
ncorporating the compo	nents into these areas.				
. The components that	will be used in high-reliability / high I	evel of safety applications should be pre-evaluated by	the end customer.		
specially in customer a	pplications in which the malfunction	or failure of an electronic component could endanger	human life or health.		
he customer shall be re	esponsible for evaluating and confirm	ning product is suitable for use in customer's applicat	ions.		
. Customer must be ca	utioned to verify that data sheets are	the updated ones before placing orders. In the individ	dual cases, any trouble or	failure of	
lectronic components h	appens during their long span canno	ot be eliminated even follow the instruction with existing	ng technology.		
. Washing / Cleaning p	rocess may jeopardize the product a	nd cause the defect. Washing agents may harm the I	ong-term functionality of th	e product	
. The storage period sh	ould not be longer than 12 months (In the specific storage environment). The oxidization	may happen on the termina	als.	
lence all the products s	hall be used within 12 months after t	he shipping date. If the time is over 12 months, pleas	e check the solderability b	efore use it.	
. Products should not b	e kept in unsuitable storage conditio	ns, such as areas susceptible to high humidity, high t	emperatures, dust or corro	sion.	
. Don't touch electrodes	s directly with bare hands as oil secre	etions may inhibit soldering. Always ensure optimum	conditions for soldering.		
. Don't bend the termina	als or subject them to excessive stre	ISS.			
. Please ensure that all	terminals and case lugs are comple	tely fixed with solder onto PCB			
0. Ensure the tuning slu	ug or cap is not fixed by solder flux d	uring the production process.			
1. Avoid placing coils n	ear the edge of the PCB				
2. Don't touch any expo	osed winding part and avoid coming	into contact with the guide of the electrode in automat	tic mounting		
3. The inductor / coil / c	common mode choke generates hea	t when current is applied. Please take care of this dur	ing the design.		
 Always handle the pr 	oduct with care to prevent the dama	ge.			
5. Our specification spe	ecifies the quality of the component a	as a single unit. Please ensure the component is thore	oughly evaluated in your ap	oplication circuit.	
even for customized pro	ducts, conclusive validation of the co	omponent in the circuit can only be carried out by cus	tomer.		
6. The general testing of	condition is in the room temperature	25 +/- 5°C and humidity under 65% RH, which is appl	ied to all products.		
7. If have any query, ple	ease feel free to contact our sales de	epartment.			