

[8RHB2]

Part Number: BCE895-102K-LF



Inductor, 8RHB2 Series, 1 mH, 160 mA, 160 mA, 2.96 ohm, ± 10%

SPECIFICATION APPROVAL

CUSTOMER : BEC DistributionPRODUCT : BCE895-102K-LFPb-freeCODE NO. : C04789024CUS. CODE :SPEC.NO. : C-4789-024(02)DATE : 25-Sep-06

CUSTOMER APPROVAL

BEC DISTRIBUTION Ltd.

www.bec.co.uk

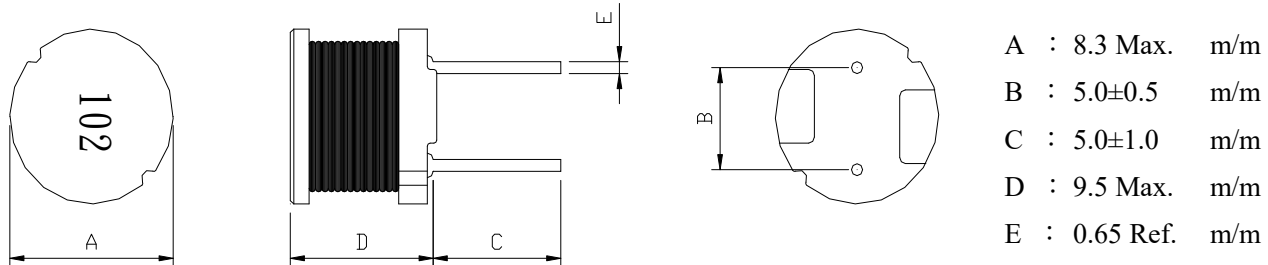
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PRODUCT	BCE895-102K-LF	COIL SPECIFICATION	DATE	2006/9/25
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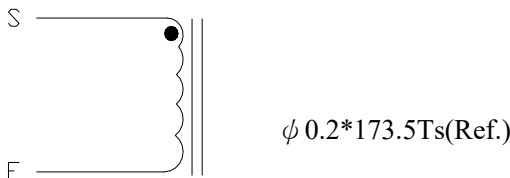
EXTERNAL DIMENSIONS :



ELECTRICAL CHARACTERISTIC :

L(mH) :	1.0±10%	1KHz 0.3V
DCR(Ω) :	1.84	Max.
IDC(A) :	0.30	Max. (L0.3A MAX ≥ 0Ax90%)
INDUCTANCE DROP :	10% MAX @ IDC	0.3 A
Operating Temperature Range :	-40°C ~ +125°C	

SCHEMATIC DRAWING :



"●" START FOR STAND

MATERIAL LIST :

NO	ITEM	MATERIAL	SUPPLIER OF THE MATERIAL
1	CORE	F4D DR2W7.8*9.3(SW) RCH B3.5 F5.0 P5.0	
2	WIRE	Φ0.2 UEW-F(180°C)	
3	INKING	BLACK INKING	
4			

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TEST DATA

ELECTRICAL CHARACTERISTICS							
MEAS. ITEM	L(mH)	DCR(Ω)	IDC(A)				
TEST FREQ.	1KHz 0.3V	Max.	Max.				
YOUR			L(0.3A)				
SPEC.	1.0 \pm 10%	1.84	\geq 0Ax90%				
1	1.04	1.62	1.04				
2	1.03	1.63	1.04				
3	1.04	1.62	1.04				
4	1.04	1.63	1.05				
5	1.05	1.63	1.07				
6	1.03	1.62					
7	1.04	1.63					
8	1.03	1.59					
9	1.04	1.59					
10	1.04	1.62					
X	1.038	1.618	1.048				
R	0.02	0.01	0.03				

DIMENSION						
MEAS. ITEM	A	B	C	D	E	
TEST FREQ.	m/m	m/m	m/m	m/m	m/m	
YOUR						
SPEC.	8.3 Max.	5.0 \pm 0.5	5.0 \pm 1.0	9.5 Max.	0.65 Ref.	
1	7.72	4.98	5.21	9.39	0.59	
2	7.74	4.90	5.27	9.40	0.58	
3	7.74	5.02	5.12	9.27	0.58	
4	7.76	5.06	5.20	9.33	0.57	
5	7.75	5.07	5.22	9.30	0.56	
6						
7						
8						
9						
10						
X	7.742	5.006	5.204	9.338	0.576	
R	0.04	0.17	0.15	0.13	0.03	

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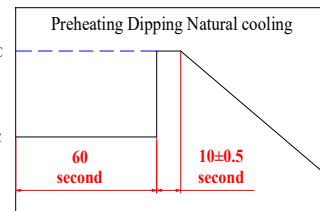
TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS
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ELECTRICAL PERFORMANCE TEST

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.

MECHANICAL PERFORMANCE TEST

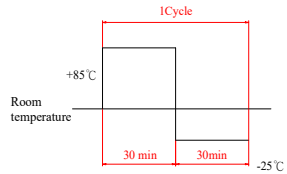
SOLDER HEAT RESISTANCE	1. INDUCTORS SHOULD HAVE NO EVIDENCE OF ELECTRICAL AND MECHANICAL DAMAGE 2. INDUCTANCE SHOULD NOT CHANGE MORE THAN $\pm 10\%$ 3. SOLDER MATERIAL WILL BE LEAD FREE.	PREHEAT: 150°C 60SECS SOLDER TEMPERATURE: 255 \pm 5°C FLUX: ROXIN.. DIP TIME: 10 \pm 0.5SECS
VIBRATION TEST (LOW FREQUENCY)		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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CLIMATIC TEST

TEMPERATURE CHARACTERISTIC	1.APPEARANCE: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 CURREN
HUMIDITY LOAD LIFE TEST		1. TEMPERATURE: 60±2°C 2. R.H.: 90-95% 3. TIME: 500±12 HOURS 4. LOAD: ALLOWED DC CURREN

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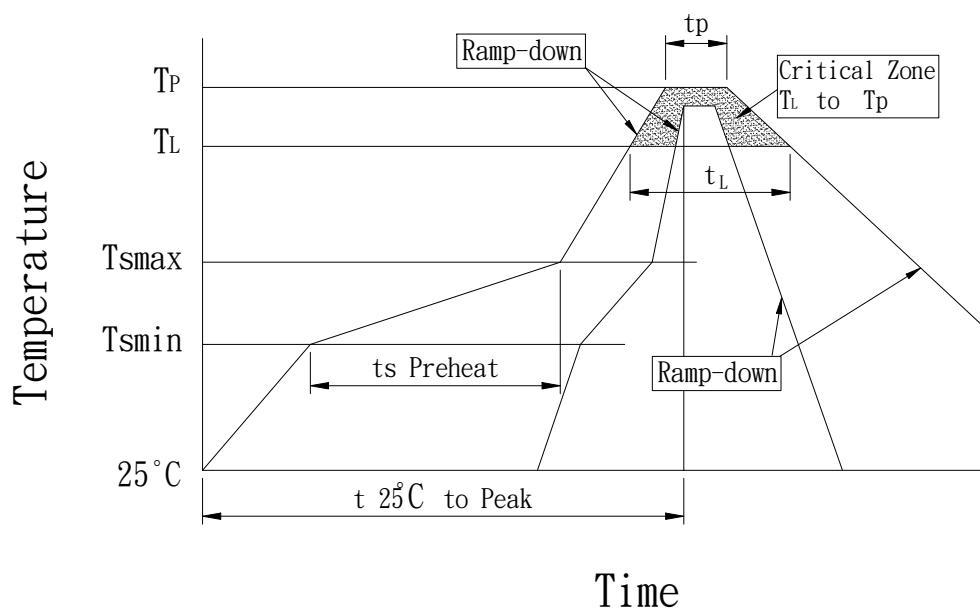
RECOMMENDED SOLDERING CONDITIONS :

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 (tp)	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.	

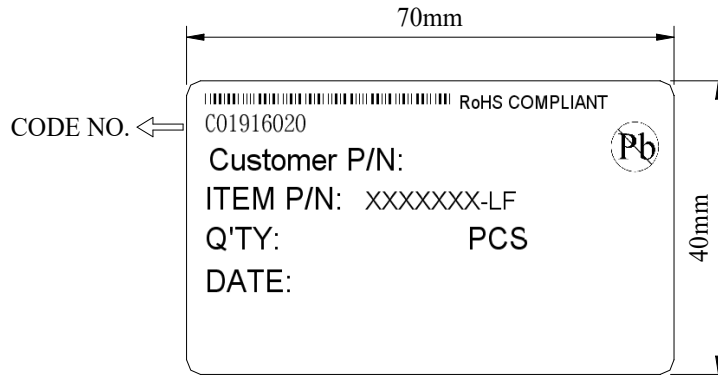
Note : All temperatures refer to topside of the package. Measured on the package body surface.

REFLOW SOLDERINGS



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TABLE :



INNER BOX LABEL



OUT BOX LABEL