

Panasonic ELC09D331F alternative

Part no PAN895-331K-CM



Radial Choke Coils



SPECIFICATION APPROVAL

CUSTOMER : BEC Distribution

PRODUCT : PAN895-331K-CM

Pb-free

CODE NO. : C04789033

CUS. CODE :

SPEC.NO. : C-4789-033(01)

DATE : 25-Sep-16

CUSTOMER APPROVAL

BEC DISTRIBUTION Ltd.

www.bec.co.uk

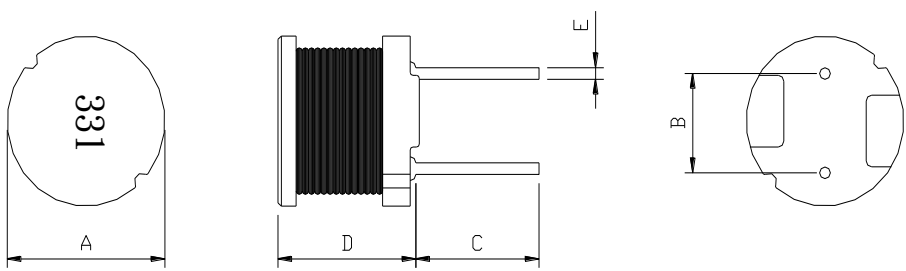
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PRODUCT	PAN895-331K-CM	COIL SPECIFICATION	DATE	2006/9/25
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EXTERNAL DIMENSIONS :



A : 8.3 Max. m/m

B : 5.0±0.5 m/m

C : 5.0±1.0 m/m

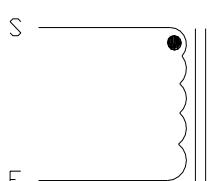
D : 9.5 Max. m/m

E : 0.65±0.1 m/m

ELECTRICAL CHARACTERISTIC :

L(uH) : 330±10% 1KHz 1V
 DCR(Ω) : 0.61 Max.
 IDC(A) : 0.51 Max. (L0.51A MAX ≥ 0Ax90%)
 INDUCTANCE DROP : 10% MAX @ IDC 0.51 A
 Operating Temperature Range : -40℃ ~ +125℃

SCHEMATIC DRAWING :



φ 0.30x103.5Ts(Ref.)

" ● " START FOR STAND

MATERIAL LIST :

NO	ITEM	MATERIAL	SUPPLIER OF THE MATERIAL
1	CORE	DL5 DR2W7.8x9.5RSN B3.2 F5.0 P5.0	TAK TECHNOLOGY CO., LTD.
2	WIRE	NY-0320-2UEW	YIAXHENGXIN INDUSTRIAL CO., LTD.
3	INKING	BLACK INKING	

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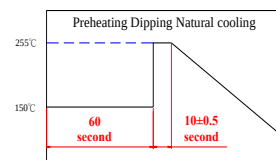
TEST DATA

ELECTRICAL CHARACTERISTICS								
MEAS. ITEM	L(μH)	DCR(Ω)	IDC(A)					
TEST FREQ	1KHz 1V	Max.	Max.					
YOUR			L(0.51A)					
SPEC.	330±10%	0.61	≥ 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					
X	325.40	0.48	301.30					
R	9.00	0.02	12.00					

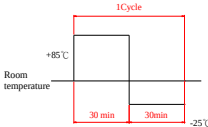
DIMENSION								
MEAS. ITEM	A	B	C	D	E			
TEST FREQ	m/m	m/m	m/m	m/m	m/m			
YOUR								
SPEC.	8.3 Max.	5.0±0.5	5.0±1.0	9.5 Max.	0.65±0.1			
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
X	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
R	0.00	0.00	0.00	0.00	0.00			

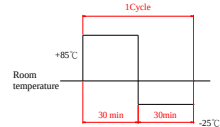
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TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS		
<u>ELECTRICAL PERFORMANCE TEST</u>				
L	REFER TO STANDARD ELEC- TRICAL CHARACTERISTIC LIST.	CH-1061 OR EQUIV.		
DCR		CH-502A OR EQUIV		
RATED CURRENT		APPLIED THE CURRENT TO COILS THE IDUCTANCE CHANGE SHOULD BE LESS THAN 10% TO INITIAL VALUE AND TEMPERATURE RISE SHOULD NOT BE MORE THAN 40°C ..		
TEMPERATURERISE TEST	40°C MAX (△t)	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 ELEC- TRICAL AND MICHANICAL DAMAGE 2. INDUCTANCE SHOULD NOT HANGE MORE THAN±10% 3. SOLDER MATERIAL WILL BE LEAD FREE.	PREHEAT:150°C 60SECS SOLDER TEMPERATURE: 255±5°C FLUX: ROXIN.. DIP TIME:10±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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TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS		
<u>CLIMATIC TEST</u>				
TEMPERATURE CHARACTERISTIC	1.APPEARANCE:NO DAMAGE 2.INDUCTANCE:WITHIN±10% OF INITIAL VALUE.	- 40℃ ~ +125℃		
HUMIDITY TEST		60℃±2℃ / 96±2 HOURS		
LOW TEMPERATURE STORAGE		1.TEMPERATURE:- 25℃±2℃ 2.TIME: 96±2 HOURS		
THERMAL SHOCK TEST		1.-25±5℃ FOR 30 MINUTES. +80±5℃ FOR 30 MINUTES. 2.TOTAL: 10 CYCLES 		
HIGH TEMPERATURE STORAGE		1.APPLIED CURRENT: MAX RATED CURRENT 2.TEMPERATURE:80℃±2℃		
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±2℃ 2. TIME: 500±12 HOURS 3. LOAD: ALLOWED DC CURREN		
HUMIDITY LOAD LIFE TEST		1. TEMPERATURE: 60±2℃ 2. R.H.: 90-95% 3. TIME: 500±12 HOURS 4. LOAD: ALLOWED DC CURREN		



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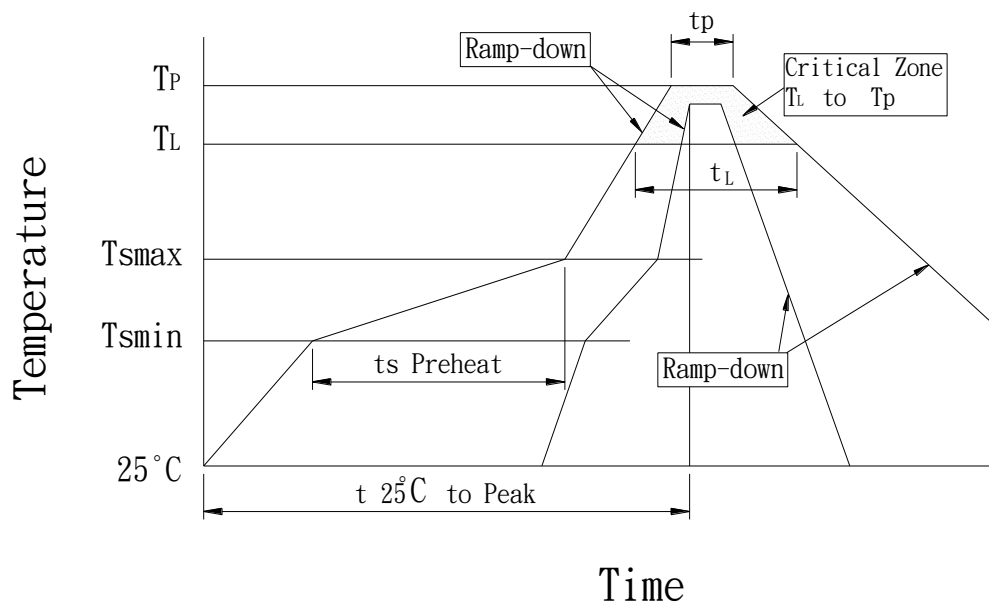
RECOMMENDED SOLDERING CONDITIONS :

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

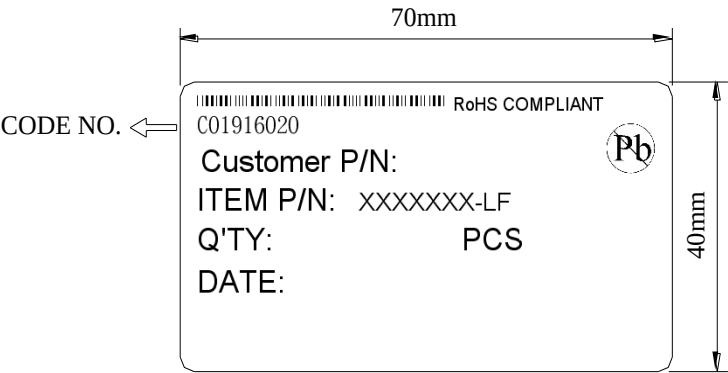
Note : All temperatures refer to topside of the package. Measured on the package body surface.

REFLOW SOLDERINGS

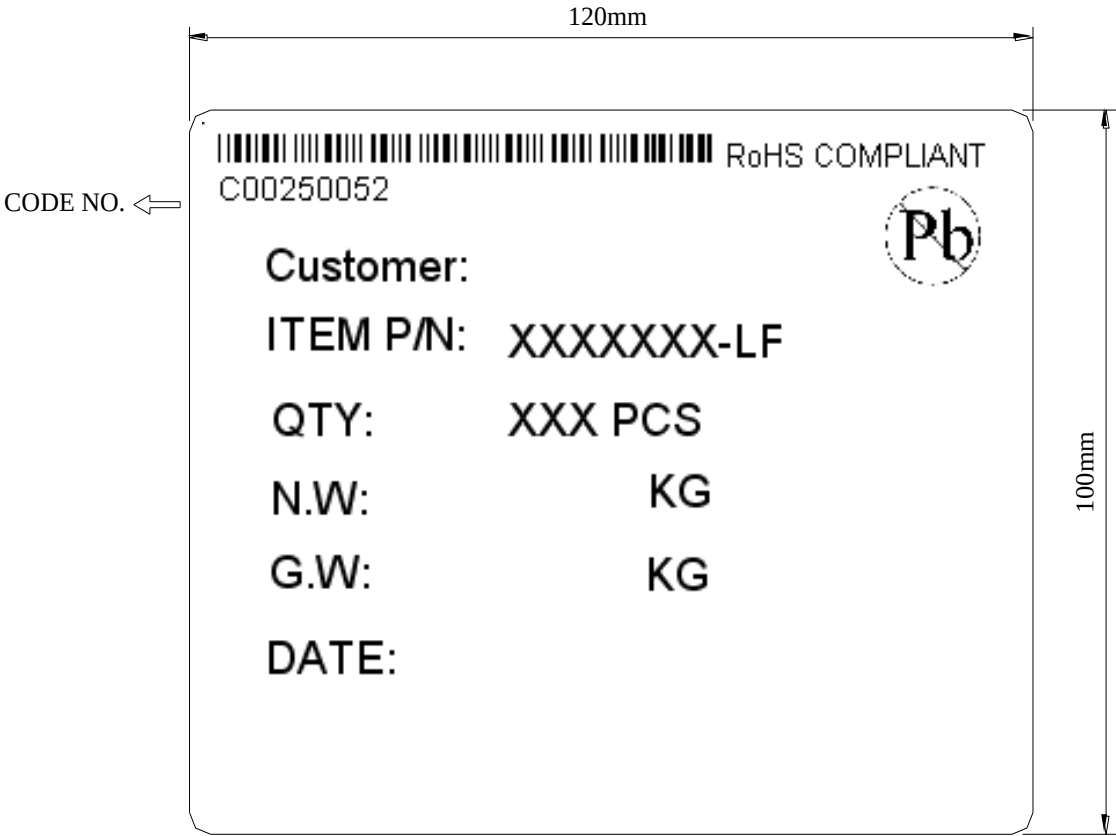


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TABLE :



INNER BOX LABEL



OUT BOX LABEL