

# 承 認 書

## SPECIFICATION FOR APPROVAL

<i>CUSTOMER:</i>	
<i>CUSTOMER P/N</i>	
<i>PART NO:</i>	
<i>DESCRIPTION:</i>	<i>SMD POWER INDUCTORS</i>
<i>PRODUCTS NO:</i>	BCRH2D18/HP-4R7N
<i>PRODUCTS REV:</i>	01
<i>DATE:</i>	2018-6-11

<i>PURCHASER CONFIRMED.</i>		
<i>APPROVAL BY</i>	<i>CHECK BY</i>	<i>DRAWN BY</i>
<i>REMARK</i>		

<i>PROVIDER ENGINEER DEPT.</i>		
<i>APPROVAL BY</i>	<i>CHECK BY</i>	
		<b>chenlinli</b>



TAIPEI OFFICE

誠陽實業有限公司

TAIWAN CHENG YANG COMPONENT CORP  
2F-1, NO. 176, Chine-Yi Road., Zhonghe District, New Taipei City, TAIWAN(R.O.C)  
新北市中和區建一路 176 號 2 樓之一

POSTAL CODE: 23500

TEL NO.:+886-2- 8228-0930 FAX NO.:+886-2-8228-0929 E-mail:h21803@ms29.hinet.net



CHINA FACTORY

寶誠電子有限公司

ZHUHAI BAO CHENG ELECTRONICSCO.,LTD  
Guan Tang Industrial Park, Tang Jia Wan Town, Zhuhai City, Guangdong Province, CHINA  
中國廣東省珠海市塘家灣鎮官塘工業區

POSTAL CODE: 519085

TEL NO:86-756-3383187 FAX NO:86-756-3380704 E-mail: [baocheng@baocheng.biz](mailto:baocheng@baocheng.biz)

CHINA FACTORY

昆山誠陽電子有限公司

KUNSHAN CHENG YANG ELECTRONICSCO.,LTD  
Qiang-An Road., High-Tech. Industrial Park, Kunshan City, Jiangsu Province, China  
江蘇省昆山市高科技工業園區強安路 35 號

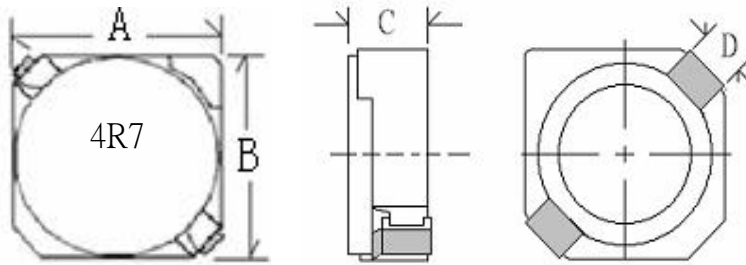
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# TEST DATA DIMENSION&ELECTRIC CHARACTER

CUSTOMER:		PART NO.:	
DESCRIPTION:	SMD INDUCTOR	SERIES NO:	BCRH2D18/HP-4R7N

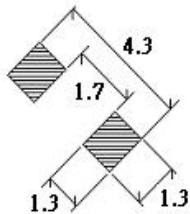
### 1.MECHANICAL DIMENSION



UNIT:mm

A	3.2MAX
B	3.2MAX
C	2.0MAX
D	1.0REF
E	
F	
G	
H	
I	

### 2.RECOMMEND LAND PATTERN DIMENSIONS



### 3.SPECIFICATIONS

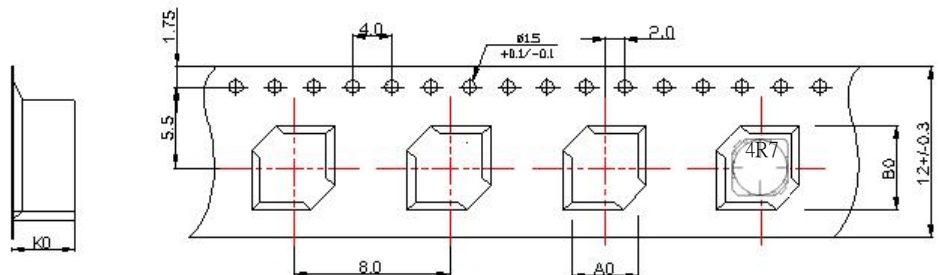
Part Number	L(OA) Inductance 4.7uH±30% @100KHZ 0.25V	R <sub>dc</sub> (mOHM)		Heat Rating Current DC Amps.Idc(A)  Typical	Saturation Current DC Amps.Idc(A)  Typical
		Typical	Max		
BCRH2D18/HP-4R7N	4.7	122.6	145.0	1.05	1.20

- (1). All test data is referenced to 25°C ambient.
- (2). Operating Temperature Rangr-30°C to +100°C.
- (3). DC current(1.05A)that will cause an appoaimateΔT of 40°C.
- (4). DC current(1.2A)that will cause Lo to drop approximately 35%.
- (5). The part temperature(ambient+temp rise)should not exceed 100°C under worst case operating conditions.Circuit design,component placement,PWB trace size and thickness,airflow and oter aooting provisions all affsct the part temperature part temperature should be verified in the end appliation.

### 4.PACKAGING INFORMATION

paets are packaged on 13"reels  
3000 parts per reel.

A0= 3.25mm
B0=3.25mm
K0=2.3mm



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# ZHUHAI BAOCHENG ELECTRONICS CO.,LTD

## TEST DATA FOR PREPRODUCTION SAMPLE

CUSTOMER:			CUSTOMER P/N:				CUSTOMER REV:			TEST DATE:2018-6-11	
PART NAME: SMD INDUCTOR			BC PART NO:BCRH2D18/HP-4R7N				BC REV:			QUANTITY:8PCS	
TEST ITEM	A	B	C	D	E	F	G	H	I	J	K
SPEC.	3.20	3.20	2.00								
	MAX	MAX	MAX								
01	3.06	3.00	1.89								
02	3.00	3.02	1.81								
03	3.02	3.05	1.88								
04	3.00	3.02	1.88								
05	3.01	3.08	1.87								
06	3.05	3.04	1.87								
07	3.04	3.02	1.90								
08	3.05	3.04	1.92								
09											
10											
11											
12											
13											
14											
15											
X	3.03	3.03	1.88								
$\sigma$	0.023	0.023	0.030								
Cpk	2.53	2.42	1.37								
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# ZHUHAI BAOCHENG ELECTRONICS CO.,LTD

## TEST DATA FOR PREPRODUCTION SAMPLE

CUSTOMER:		CUSTOMER P/N:		CUSTOMER REV:		TEST DATE:2018-6-11	
PART NAME: SMD INDUCTOR		BC PART NO:BCRH2D18/HP-4R7N		BC REV:		QUANTITY:8PCS	
TEST ITEM	L(0A)	L(1.2A)/L(0A)-100%	DCR(S-F)				
TEST CONDITION	100KHZ 0.25V						
SPEC.	4.7uH ±30%	≥65% AT DC 1.2A	145mΩ MAX				
01	4.91	96%	124.5				
02	4.77	97%	120.5				
03	4.43	98%	126.1				
04	4.80	96%	124.2				
05	4.85	94%	119.9				
06	4.56	98%	119.8				
07	4.53	98%	125.2				
08	5.06	89%	120.4				
09							
10							
11							
12							
13							
14							
15							
X	4.74		122.58				
$\sigma$	0.200		2.489				
Cpk	2.28		3.00				

## 1. TEST INSTRUMENTS:

- HP-4284A METER  
 HP-4285A METER  
 HP-4191A METER  
 VR116+VR7220 METER  
 CH-3200 METER  
 CH-310 METER  
 CH-3305 METER  
 CD1068+CD1320 METER  
 WK3260R+WK3265R METER  
 VR562 METER  
 CH-502B DCR METER

## 2.CONDITION

TEMPERATURE: 25℃  
 HUMIDITY: 65%RH

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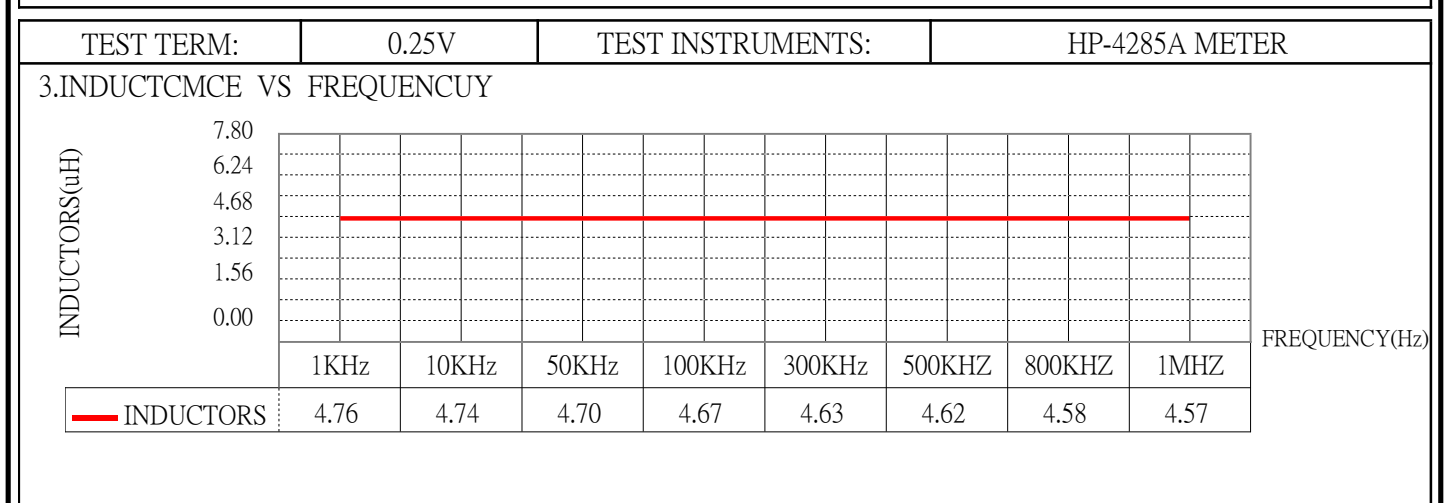
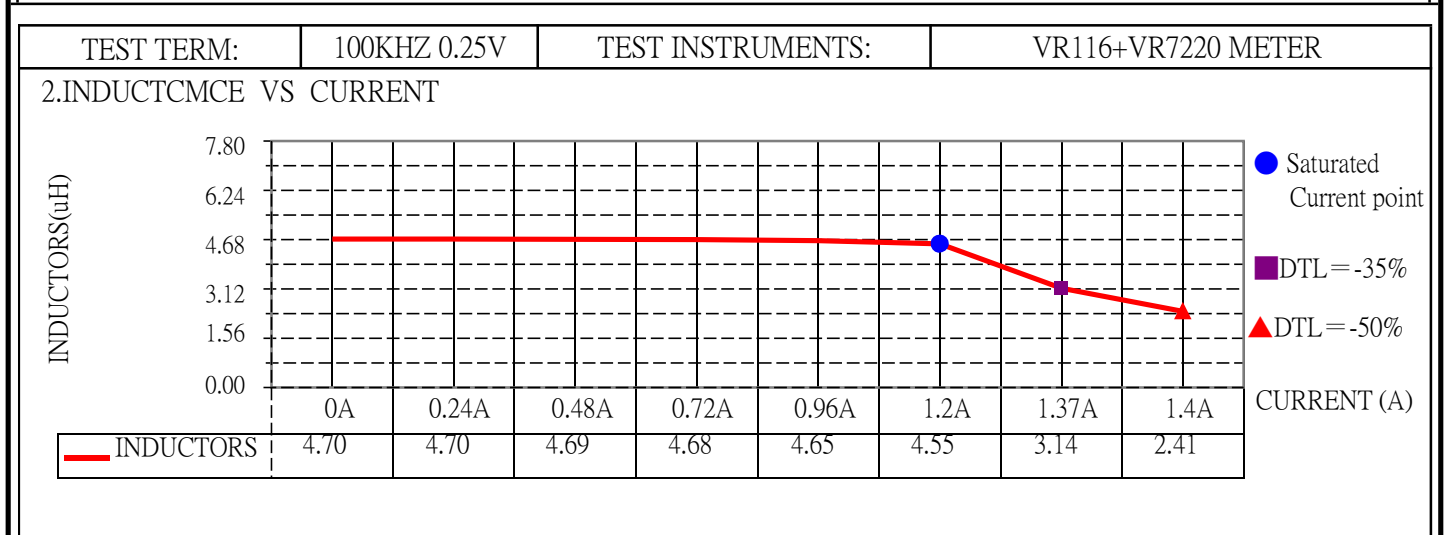
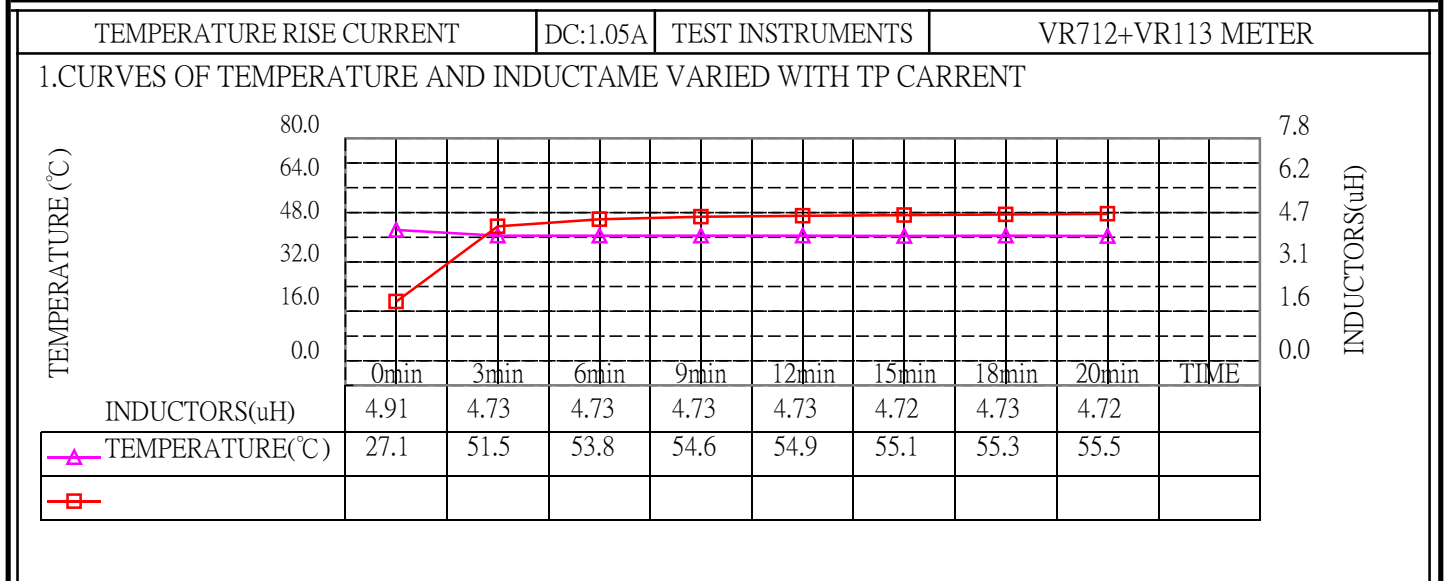
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# ELECTRONICS CHARACTER TEST CHART

CUSTOMER:		CUSTOMER P/N:	TEST DATE:2018-6-11
PART NAME:	SMD INDUCTOR	BC PN:BCRH2D18/HP-4R7N	SAMPLE CO:



1.TEST CONDITION  
 TEMPERATURE: 25°C  
 HUMIDITY: ≤ 65% RH

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