

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>	
		chenlinli



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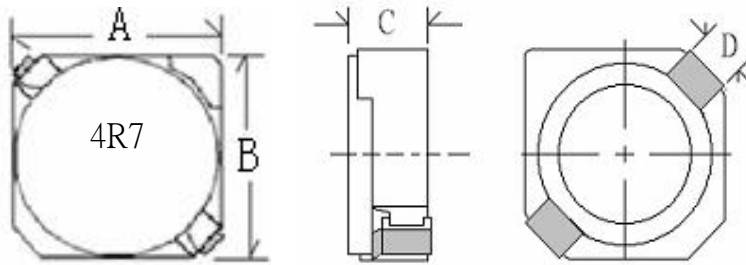
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TEST DATA DIMENSION&ELECTRIC CHARACTER

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

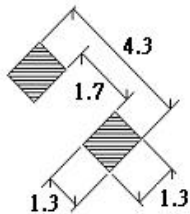
1.MECHANICAL DIMENSION



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

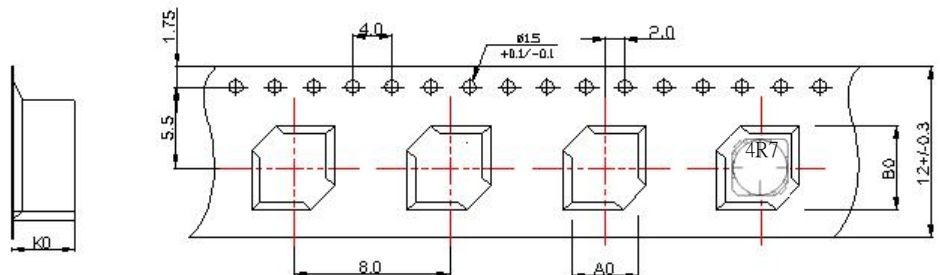
Part Number	L(OA) Inductance 4.7uH±30% @100KHZ 0.25V	R _{dc} (mOHM)		Heat Rating Current DC Amps.Idc(A) Typical	Saturation Current DC Amps.Idc(A) Typical
		Typical	Max		
BCRH2D18/HP-4R7N	4.7	122.6	145.0	1.05	1.20

- (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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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								
σ	0.023	0.023	0.030								
Cpk	2.53	2.42	1.37								
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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			
σ	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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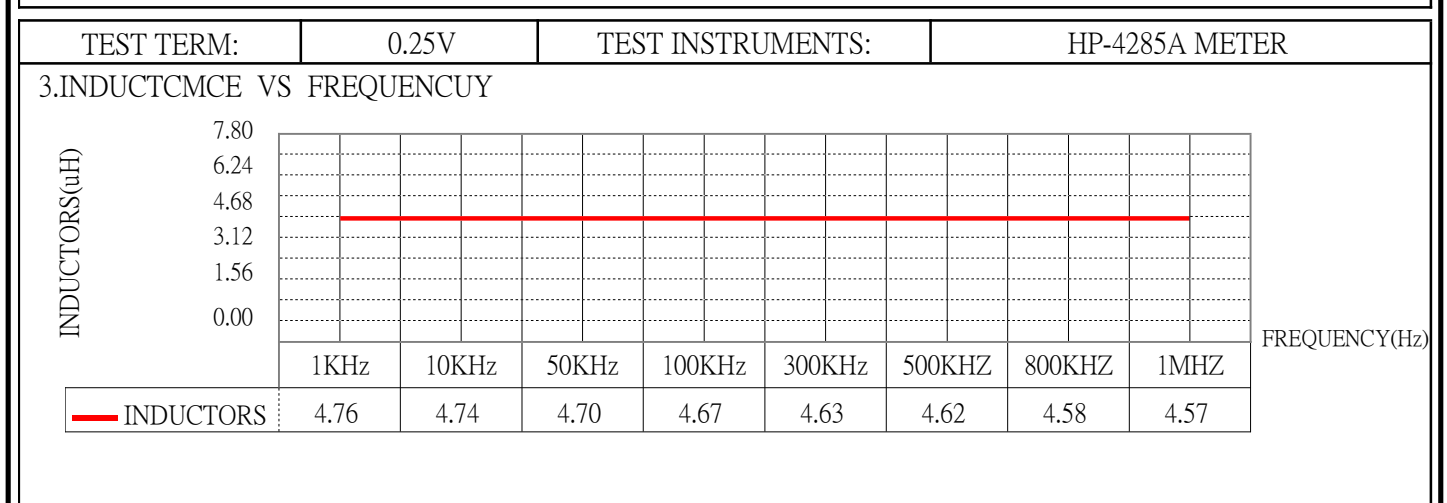
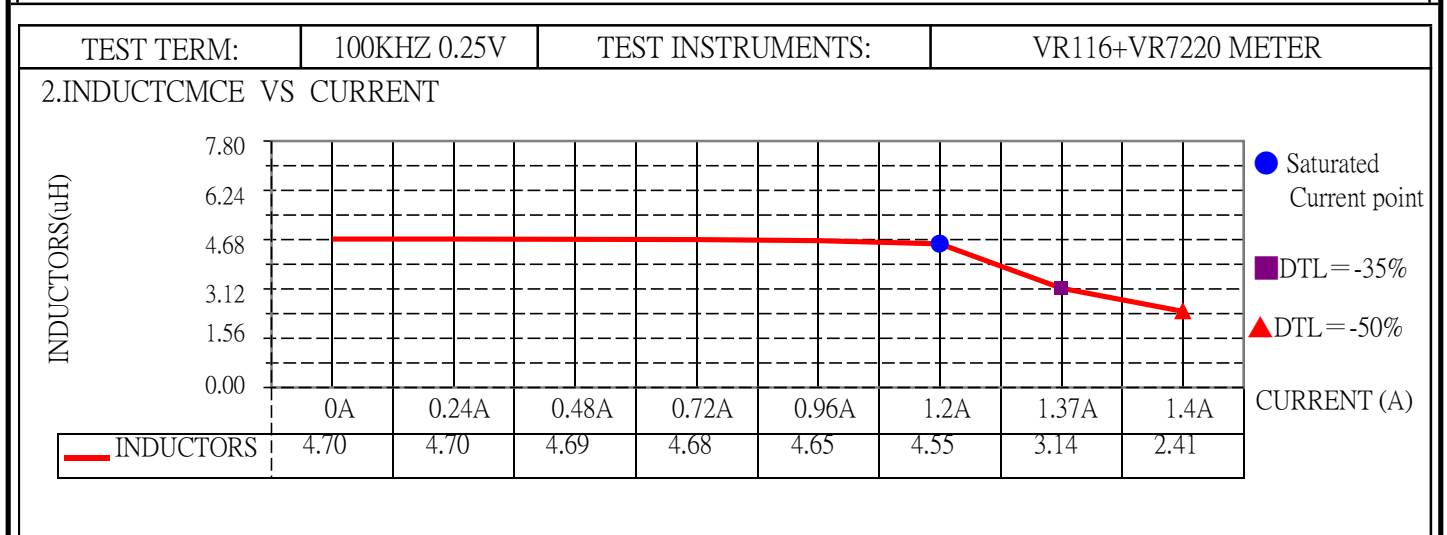
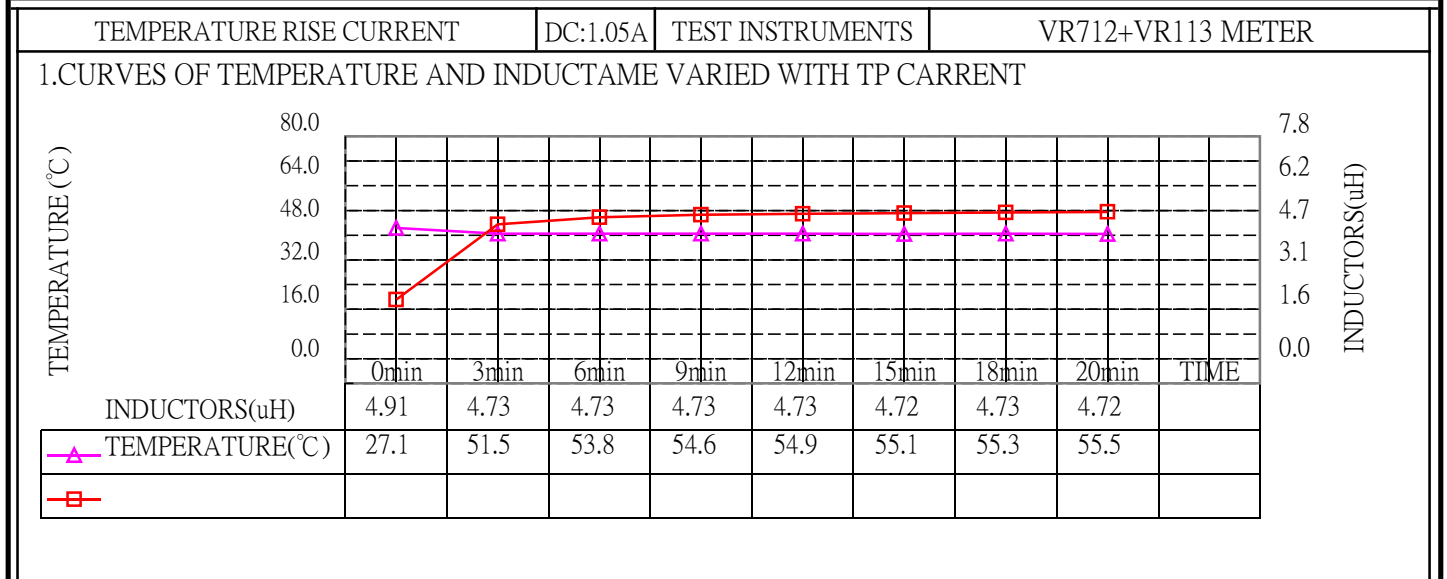
CHECKED BY

PREPARED BY

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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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