

# 承 認 書

ROHS Compliant

## 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>	BCRH1212Y-680M
<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.,LTDP

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

POSTAL CODE: 215300

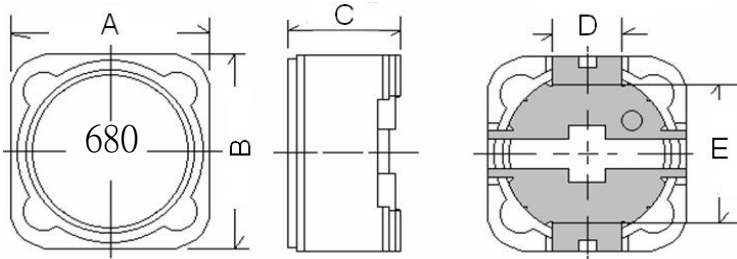
TEL NO:86-512-57823500 FAX NO:86-512-57823503 E-mail: [kscy@taiwan-chengyang.com.tw](mailto:kscy@taiwan-chengyang.com.tw)

# TEST DATA

## DIMENSION&ELECTRIC CHARACTER

CUSTOMER:		PART NO:	
DESCRIPTION:	SMD INDUCTOR	SERIES NO:	BCRH1212Y-680M

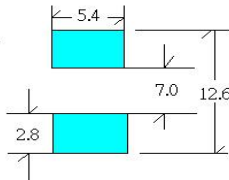
### 1.MECHANICAL DIMENSION



UNIT:mm

A	12.5MAX
B	12.5MAX
C	12MAX
D	5.0±0.2
E	7.9±0.2
F	
G	
H	
I	

### 2.RECOMMEND LAND PATTERN DIMENSIONS



### 3.SPECIFICATIONS

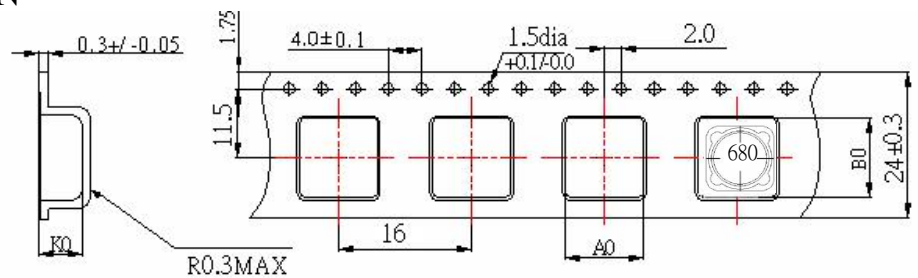
Part Number	L(0A) Inductance 68uH±20% @1KHZ 0.25V	R <sub>dc</sub> (mOHM)		Heat Rating Current DC Amps.Idc(A)	Saturation Current DC Amps.Idc(A)
		Typical	Max		
BCRH1212Y-680M	68.0	51.6	63.0	3.50	3.50

- (1). All test data is referenced to 25°C ambient.
- (2). Operating Temperature Rangr-30°C to +100°C.
- (3). DC current(3.50A)that will cause an approximate ΔT of 40°C.
- (4). DC current(3.50A)that will cause Lo to drop approximately 25%.
- (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 other cooling provisions all affect the part temperature part temperature should be verified in the end appliation.

### 4.PACKAGING INFORMATION

parts are packaged on 13"reels  
200 parts per reel.

A0= 12.6mm
B0= 12.6mm
K0= 12.2mm



APPROVED BY:

CHECKED BY:

DRAWN BY: chenlinli

# 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			CY PART NO:BCRH1212Y-680M				CY REV:			QUANTITY:20PCS	
TEST ITEM	A	B	C	D	E	F	G	H	I	J	K
SPEC.	12.50	12.50	12.00								
	MAX	MAX	MAX								
01	12.07	12.09	11.61								
02	12.08	12.08	11.58								
03	12.06	12.06	11.63								
04	12.08	12.08	11.59								
05	12.08	12.08	11.62								
06	12.05	12.07	11.60								
07	12.04	12.08	11.57								
08	12.06	12.06	11.62								
09	12.08	12.07	11.60								
10	12.09	12.08	11.63								
11	12.07	12.09	11.61								
12	12.08	12.08	11.59								
13	12.06	12.07	11.62								
14	12.08	12.08	11.59								
15	12.09	12.05	11.62								
$\bar{X}$	12.07	12.07	11.61								
$\sigma$	0.014	0.011	0.018								
Cpk	10.15	13.04	7.37								
APPROVED BY				CHECKED BY				PREPARED BY			
								chenlinli			

# 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		CY PART NO:BCRH1212Y-680M		CY REV:	QUANTITY:20PCS	
TEST ITEM	L(0A)	L(3.5A)	DCR(S-F)			
TEST CONDITION	1KHZ 0.25V					
SPEC.	68uH ±20%	≥75% AT DC 3.5A	63mΩ MAX			
01	66.40	98%	51.42			
02	65.85	98%	51.39			
03	64.15	98%	51.23			
04	65.45	98%	51.50			
05	64.20	98%	52.05			
06	64.95	98%	51.73			
07	64.95	98%	51.15			
08	63.45	98%	51.02			
09	64.90	97%	51.46			
10	64.55	97%	51.97			
11	61.70	97%	51.70			
12	64.70	97%	51.35			
13	64.45	97%	51.96			
14	64.70	98%	51.86			
15	65.00	98%	51.80			
$\bar{X}$	64.63		51.57			
$\sigma$	1.038		0.309			
Cpk	3.29		12.31			

## I. TEST INSTRUMENTS:

- HP-4284A METER  
 HP-4285A METER  
 HP-4191A METER  
 CH-3200 METER  
 CH-310 METER  
 CH-3305 METER  
 CD1068+CD1320 METER  
 VR116+VR7220 METER  
 WK3260B METER  
 VR562 METER  
 CH-502B DCR METER

## 2.CONDITION

TEMPERATURE: 25 °C  
HUMIDITY: 65%RH

CORE: DR10\*11\*6.2<sup>STD</sup>-C B:6.2 F:8.0 KL45RI12.2\*10.8\*10.8<sup>T</sup> T12S (华佑)

WIRE: Φ0.37mm\*1P\*2\*27.5TS

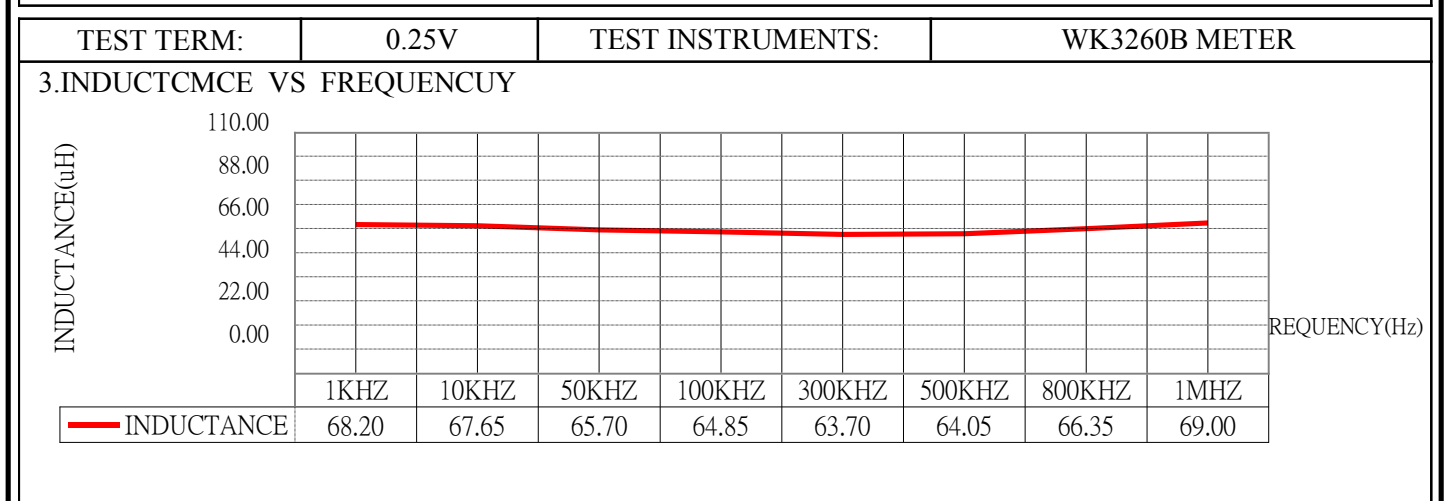
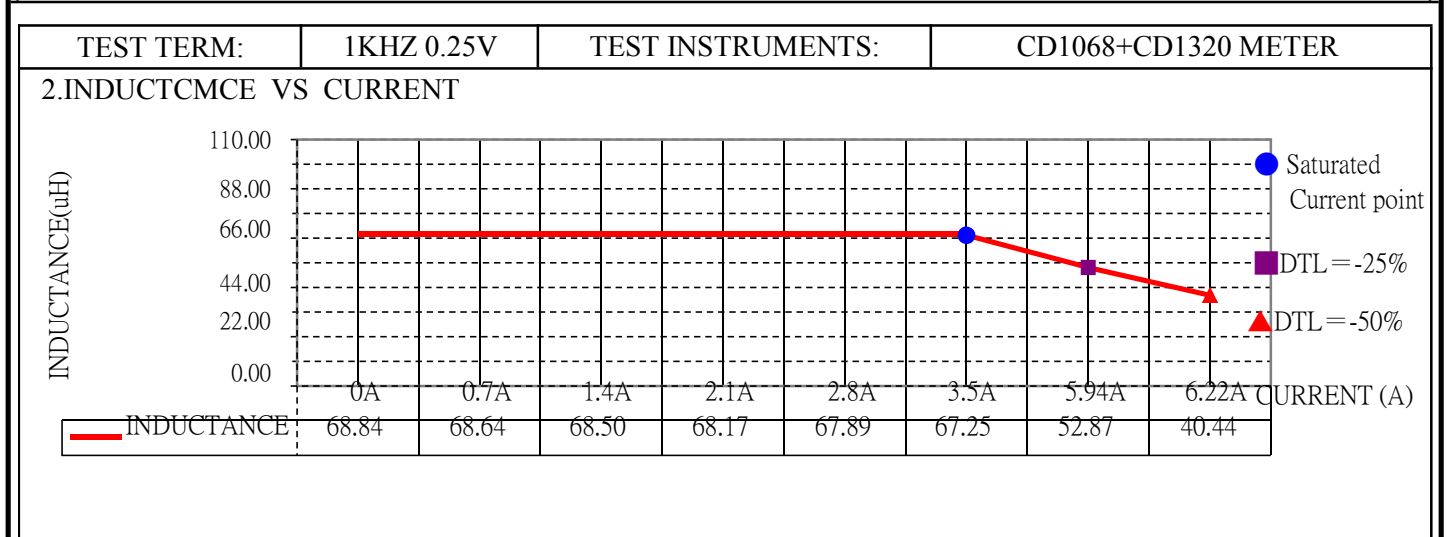
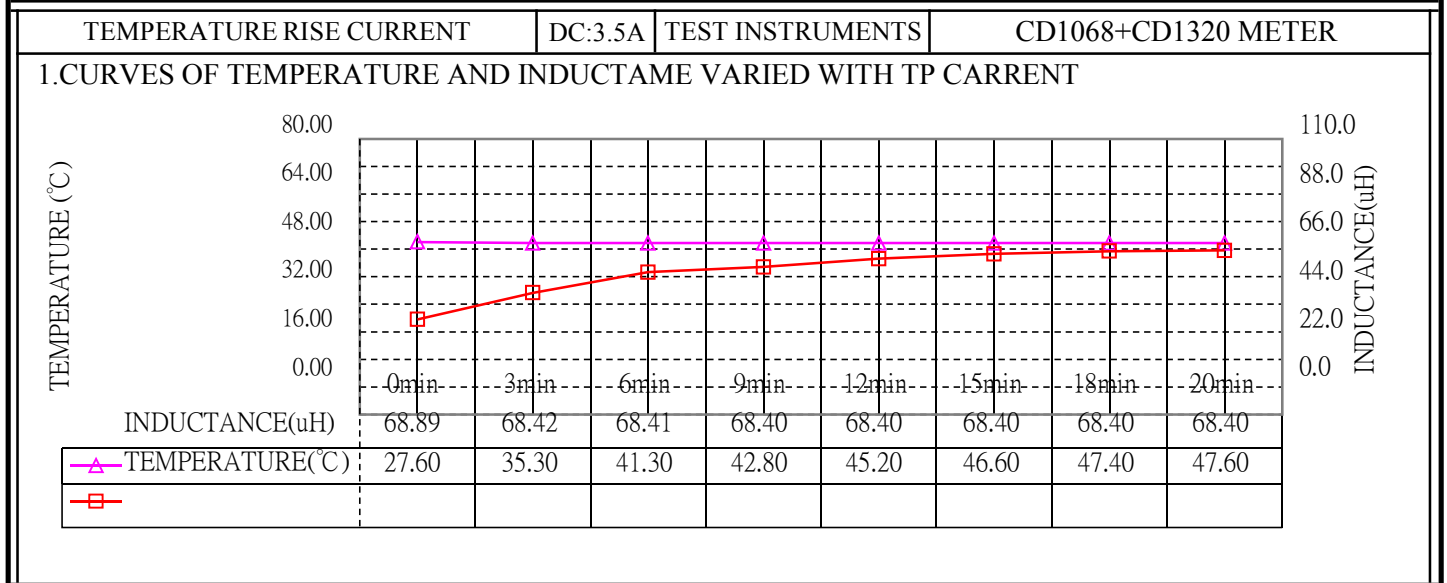
端子: 212-032A T2N(申盛)

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		chenlinli

CY019S0030

# ELECTRONICS CHARACTER TEST CHART

CUSTOMER:		CUSTOMER P/N:	TEST DATE:2018-6-11
PART NAME:	SMD INDUCTOR	BC PN:BCRH1212Y-680M	SAMPLE CO:



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

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