

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>	BC54-820M
<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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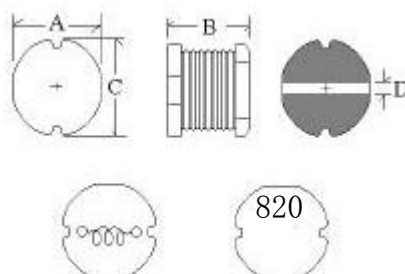
TEL NO:86-512-57823500 FAX NO:86-512-57823503 E-mail: kscy@taiwan-chengyang.com.tw

TEST DATA

DIMENSION&ELECTRIC CHARACTER

CUSTOMER:		PART NO:	
DESCRIPTION:	SMD INDUCTOR	SERIES NO:	BC54-820M

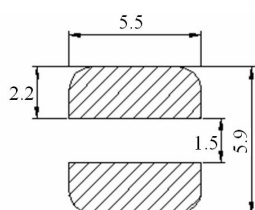
1.MECHANICAL DIMENSION



UNIT : mm

A	5.5MAX
B	4.8MAX
C	6.1MAX
D	1.5TYP
E	
F	
G	
H	
I	

2.RECOMMEND LAND PATTERN DIMENSIONS



3.SPECIFICATIONS

Part Number	L(OA) Inductance 82uH± 20%	R _{dc} (OHM)		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Idc (A)
		Typical	Max		
BC54-820M	82.0	0.51	0.60	0.70	0.58

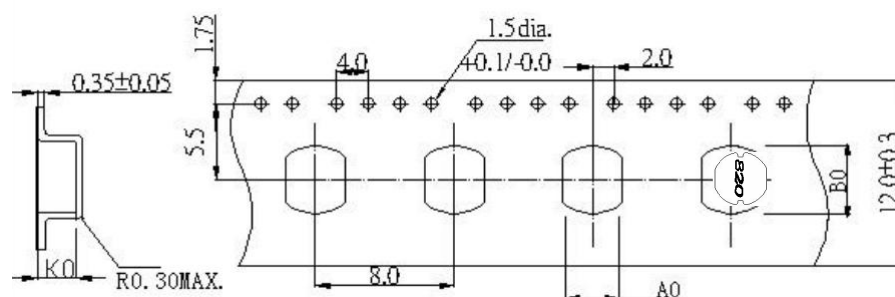
- (1). All test data is referenced to 25°C ambient.
- (2). Operating Temperature Rangr-30°C to +100°C.
- (3). DC current (0.70A) that will cause an approximate ΔT of 40°C. (4). DC current (0.58A) that will cause Lo to drop approximately 10%.
- (5). The part temperature (ambient+temp rise) should not 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

1500 parts per reel.

A0= 5.6mm
B0= 6.0mm
K0= 4.7mm



APPROVED BY:

CHECKED BY:

DRAWN BY: chenlinli

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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:BC54-820M		BC REV:		QUANTITY:10PCS			
TEST ITEM	L(0A)	L(0.58A)	DCR(S-F)						
TEST CONDITION	2.52MHZ 0.25V								
SPEC.	82uH ±20%	≥90% AT DC 0.58A	0.60Ω MAX						
01	82.62	97%	0.51						
02	82.27	97%	0.51						
03	82.92	97%	0.51						
04	82.86	98%	0.51						
05	82.67	97%	0.51						
06	82.12	97%	0.51						
07	82.03	98%	0.52						
08	82.21	97%	0.51						
09	81.42	98%	0.51						
10	81.09	97%	0.52						
11									
12									
13									
14									
15									
\bar{x}	82.22		0.51						
σ	0.568		0.004						
Cpk	9.49		7.33						
1. TEST INSTRUMENTS:				APPROVED BY		CHECKED BY		PREPARED BY	
<input type="checkbox"/> HP-4284A METER <input checked="" type="checkbox"/> HP-4285A METER <input type="checkbox"/> HP-4191A METER <input type="checkbox"/> CH-3200 METER <input type="checkbox"/> CH-310 METER <input type="checkbox"/> CH-3305 METER <input checked="" type="checkbox"/> CD1068+CD1320 METER <input type="checkbox"/> VR116+VR7220 METER <input type="checkbox"/> WK3260B+WK3265B METER <input type="checkbox"/> VR562 METER <input checked="" type="checkbox"/> CH-502B DCR METER									
2.CONDITION								chenlinli	
TEMPERATURE: 25 °C									
HUMIDITY: 65%RH									

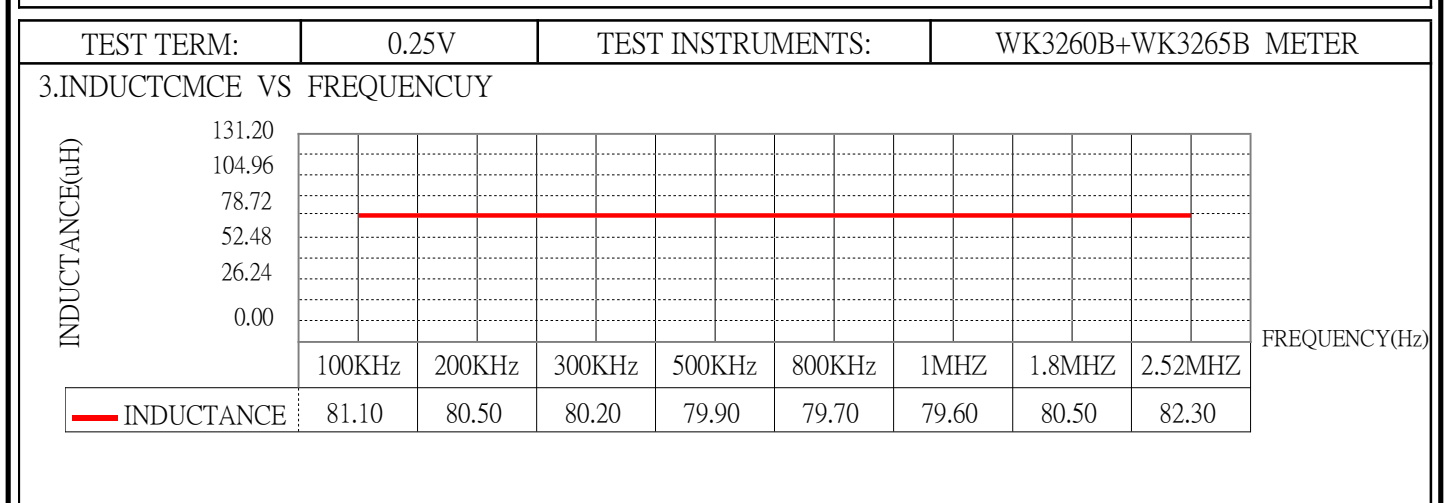
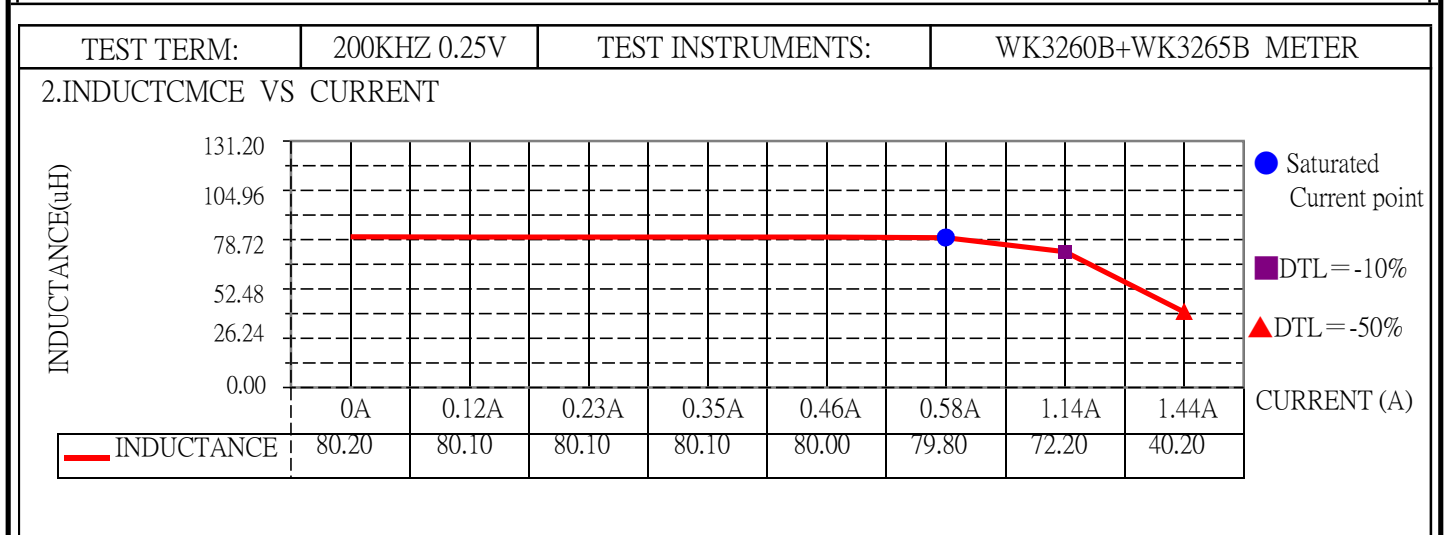
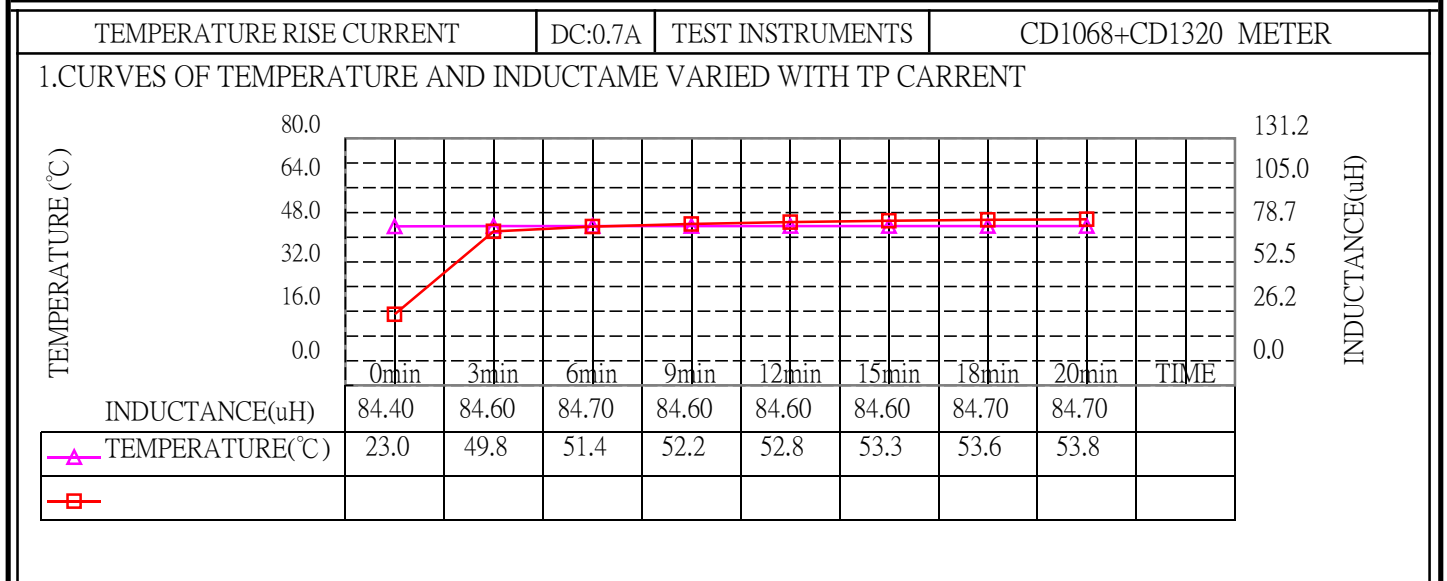
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TEST DATA FOR PREPRODUCTION SAMPLE

CUSTOMER:			CUSTOMER P/N:				CUSTOMER REV:			TEST DATE:2018-6-11	
PART NAME: SMD INDUCTOR			BC PART NO:BC54-820M				BC REV:			QUANTITY:10PCS	
TEST ITEM	A	B	C	D	E	F	G	H	I	J	K
SPEC.	5.50	4.80	6.10								
	MAX	MAX	MAX								
01	5.22	4.53	5.59								
02	5.27	4.57	5.55								
03	5.23	4.50	5.59								
04	5.16	4.55	5.55								
05	5.14	4.52	5.69								
06	5.16	4.52	5.71								
07	5.18	4.45	5.57								
08	5.16	4.44	5.61								
09	5.14	4.45	5.63								
10	5.22	4.44	5.59								
11											
12											
13											
14											
15											
X	5.19	4.50	5.61								
σ	0.042	0.046	0.052								
Cpk	2.48	2.19	3.17								
APPROVED BY				CHECKED BY				PREPARED BY			
								chenlinli			

ELECTRONICS CHARACTER TEST CHART

CUSTOMER:		CUSTOMER P/N:	TEST DATE:2018-6-11
PART NAME:	SMD INDUCTOR	BC PN:BC54-820M	SAMPLE CO:



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

APPROVED BY	CHECKED BY	PREPARED BY
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