

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>	BC43-4R7M
<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

誠陽實業有限公司



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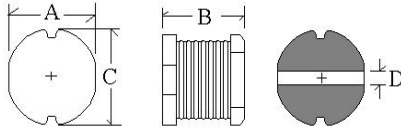
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TEST DATA

DIMENSION&ELECTRIC CHARACTER

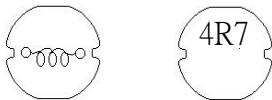
CUSTOMER:		PART NO:	
DESCRIPTION:	SMD INDUCTOR	SERIES NO:	BC43-4R7M

1.MECHANICAL DIMENSION

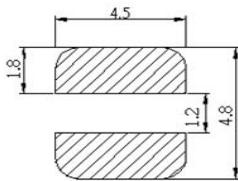


UNIT:mm

A	4.3MAX
B	3.5MAX
C	4.8MAX
D	1.2TYP
E	
F	
G	
H	
I	



2.RECOMMEND LAND PATTERN DIMENSIONS



3.SPECIFICATIONS

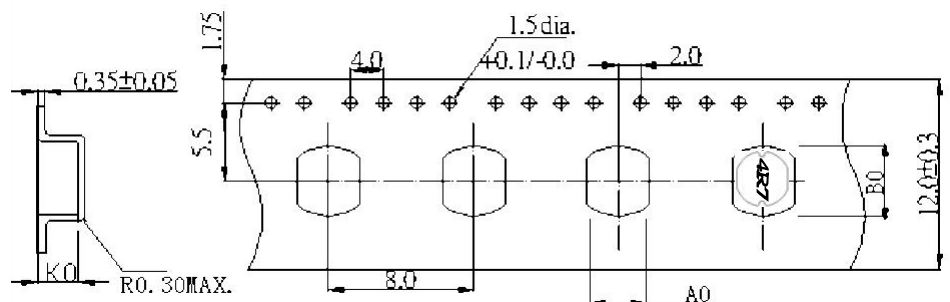
Part Number	L(0A) Inductance 4.7uH±20% @7.96MHZ 0.25V	R _{dc} (mOHM)		Heat Rating Current DC Amps.Idc(A)	Saturation Current DC Amps.Idc(A)
		Typical	Max		
BC43-4R7M	4.7	71.0	94.0	1.72	1.70

- (1). All test data is referenced to 25 °C ambient.
- (2). Operating Temperature Rangr-30°C to +100°C.
- (3). DC current(1.72A)that will cause an approximate ΔT of 40°C.
- (4). DC current(1.7A)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 application.

4.PACKAGING INFORMATION

parts are packaged on 13"reels
1500 parts per reel.

A0= 4.2mm
B0= 4.8mm
K0= 3.6mm



APPROVED BY:

CHECKED BY:

DRAWN BY: chenlinli

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TEST DATA FOR PREPRODUCTION SAMPLE

CUSTOMER:			CUSTOMER P/N:				CUSTOMER REV:			TEST DATE:2012/11/14	
PART NAME: SMD INDUCTOR			BC PART NO:BC43-4R7M				BC REV:			QUANTITY:30PCS	
TEST ITEM	A	B	C	D	E	F	G	H	I	J	K
SPEC.	4.30	3.50	4.80								
	MAX	MAX	MAX								
01	4.11	3.18	4.31								
02	4.09	3.18	4.38								
03	4.08	3.18	4.35								
04	4.07	3.19	4.28								
05	4.07	3.18	4.26								
06	4.07	3.19	4.35								
07	4.07	3.19	4.28								
08	4.07	3.18	4.26								
09	4.08	3.18	4.35								
10	4.07	3.19	4.28								
11	4.09	3.18	4.38								
12	4.08	3.18	4.35								
13	4.07	3.19	4.28								
14	4.07	3.18	4.26								
15	4.07	3.19	4.35								
X	4.08	3.18	4.31								
σ	0.011	0.005	0.044								
Cpk		216.6	32.95								
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:2012/11/14	
PART NAME:SMD INDUCTOR		BC PART NO:BC43-4R7M		BC REV:		QUANTITY:30PCS	
TEST ITE	L(0A)	L(1.7A)/L(0A) 100%	DCR(S-F)				
TEST CONDITION	7.96MHZ 0.25V						
SPEC.	4.7uH ±20%	≥90% AT DC 1.7A	94mΩ MAX				
01	4.52	99%	70.43				
02	4.45	98%	73.64				
03	4.51	98%	73.08				
04	4.57	98%	72.59				
05	4.56	98%	71.26				
06	4.50	98%	70.38				
07	4.55	98%	70.72				
08	4.53	99%	70.28				
09	4.52	98%	70.26				
10	4.59	98%	71.75				
11	4.58	99%	73.42				
12	4.56	98%	72.38				
13	4.51	98%	72.72				
14	4.50	98%	72.31				
15	4.49	99%	71.60				
\bar{X}	4.53		71.79				
σ	0.037		1.149				
Cpk	40.65		20.83				

1. 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+WK3265B METER
- VR562 METER
- CH-502B DCR METER

CORE:MDR4.5*3.2R B:2.1 F:1.5 DL5
WIRE:0.22mm*15.5TS (REF)

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2.CONDITION

TEMPERATURE: 25 °C
HUMIDITY: 65%RH