# 承認書

# **SPECIFICATION FOR APPROVA**

CUSTOMER:		
CUSTOMER P/N:		
CUSTOMER PART NO:		
DESCRIPTION:	SMD INDUCTOR	
PRODUCTS NO:	BCIHP0940-2R2M	
FIRST DATE:	2019-10-25	BC REV: X1
DATE:	2019-10-25	

PURCHASER CONF	FIRMED

REMARK

	PROVIDER ENGINE	ER DEPT.		
APPROVAL BY CHECK BY DRAWN BY				
Ouyang weijun	Xuqiuyue	chenlinli		

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TAIPEI OFF ICE TAIWAN CHENG YANG COMPONENT CORP

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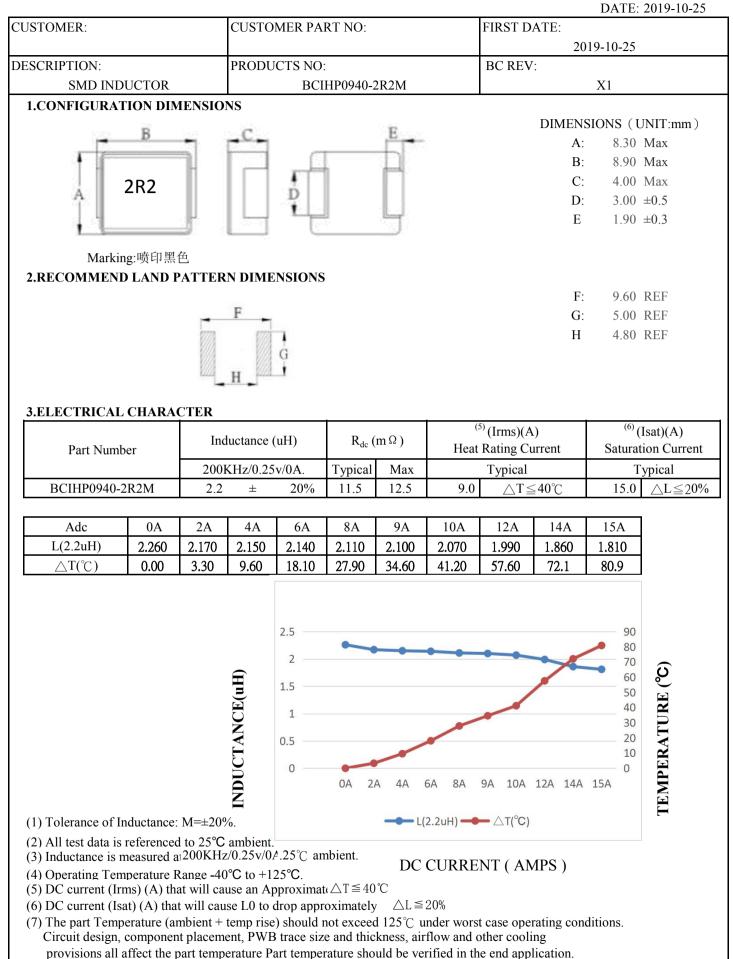
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CHINA FACTORYKUNSHAN CHENG YANG ELECTRONICSCO.,LTDP

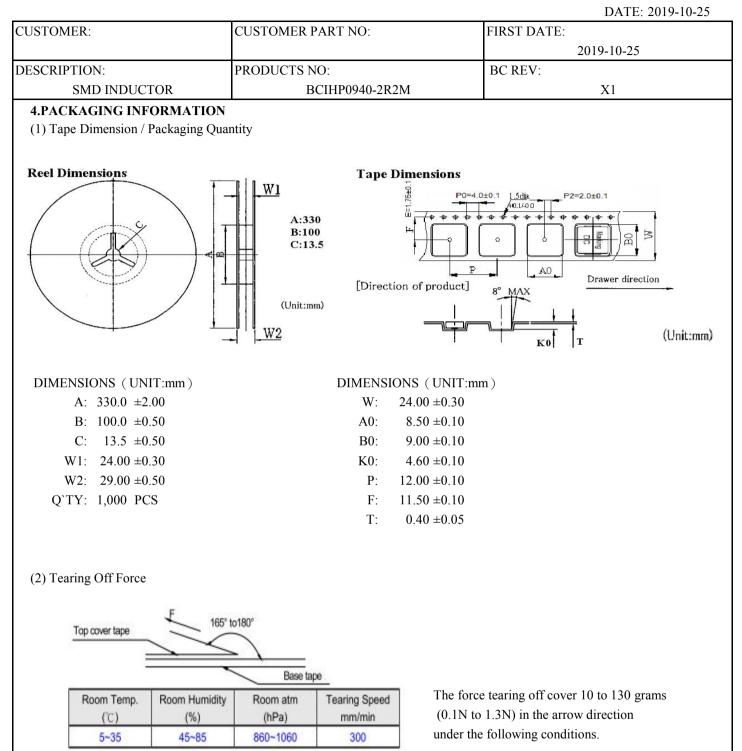
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#### SPECIFICATION FOR APPROVAL



\*Irms : Heat Rating Current DC Amps. \*Isat : Saturation Current DC Amps.

### SPECIFICATION FOR APPROVAL



•Storage conditions/Note things

(1) Storage temperature and humidity conditions :

1. Product packing with Carrier tape:  $+5^{\circ}C \sim +40^{\circ}C$  and less than 60% RH.

- 2. Product alone:  $-20^{\circ}C \sim +60^{\circ}C$  and less than 60% RH.
- (2) Products should be used within 6 months.
- (3) The packaging material should be kept where no chlorine or sulfur exists in the air.

(4) Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability

(5) The use of tweezers or vacuum pick-ups is strongly recommended for individual components.

(6) Bulk handling should ensure that abrasion and mechanical shock are minimized.

# SAMPLE ACKNOWLEDGE CHANGE RESUME

DATE: 2019-10-25

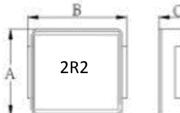
<b>{</b> :	CUSTOMERI	PART NO:	FIRST DATE: 2019-10	-25
			BC REV:	
	Change content	Change reason	Modify	Date
00	首次	首次送样	chenlinli	2019-10-25
	ON: MD INDUCT	ON: PRODUCTS N MD INDUCTOR E Change content	ON: PRODUCTS NO: BCIHP0940-2R2M	ON:     PRODUCTS NO:     BC REV:       MD INDUCTOR     BCIHP0940-2R2M     X1

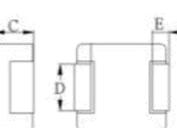
# TEST DATA

DATE: 2019-10-25

CUSTOMER:	CUSTOMER PART NO:	FIRST DATE:
		2019-10-25
DESCRIPTION:	PRODUCTS NO:	BC REV:
SMD INDUCTOR	BCIHP0940-2R2M	X1







LOT NO.						
DIMEN	DIMENSIONS (UNIT:mm)					
Α	8.30	Max				
В	8.90	Max				
С	4.00	Max				
D	3.00	±0.5				
Е	1.90	±0.3				

					2 1							
	TEST ITEM		SPEC		TI	TEST CONDITION						
1	1 Inductance (uH)			2.2	±	20%	2	00KH	z/0.25v/0A	Α.		
2	Rdc (m	Ω)				12.5	Max					
3	(6) (Isa	t)(A)Satur	ation Cu	rent DC	Amps	15.0	∆L≦	20%				
4	(5) (Irm	ns)(A)Heat	t Rating (	Current D	C Amps	9.0	$\triangle T \leq 40$	)°C				
MEAS	ITEM	А	В	С	D	Е			1		2	3
SUGO	TECT	8.30	8.90	4.00	3.00	1.90			2.2		12.5	15.0
5000	JESI	Max	Max	Max	±0.5	±0.3			± 20	0%	Max	$\triangle L \leq 20\%$
1	-	8.20	8.53	3.56	3.00	2.00			2.16		11.21	82%
2	2	8.21	8.46	3.60	3.00	2.00			2.14		11.30	82%
3	;	8.19	8.52	3.58	3.00	2.00			2.10		11.09	83%
4	Ļ	8.22	8.53	3.54	3.00	2.00			2.09		10.74	83%
5	5	8.21	8.49	3.56	3.00	2.00			2.18		10.98	81%
6	5	8.19	8.46	3.56	3.00	2.00			2.19		11.01	82%
7	7	8.19	8.52	3.58	3.00	2.00			2.19		10.83	80%
8	8	8.20	8.49	3.57	3.00	2.00			2.17		11.33	82%
9	)	8.23	8.52	3.58	3.00	2.00			2.19		11.04	82%
10	0	8.21	2.87	3.59	3.00	2.00			2.21		11.04	81%
1	1											
12	2											
13	3											
14	4											
1:	5											
ma	ax	8.23	8.53	3.60					2.21		11.33	83.0%
mi	in	8.19	2.87	3.54					2.09		10.74	80.0%
σ		0.013	1.690	0.017					0.038		0.179	0.009
Х	K	8.21	7.94	3.57					2.16		11.06	81.8%
Ср	ok	2.47	0.19	8.59					4.18		2.69	542.26

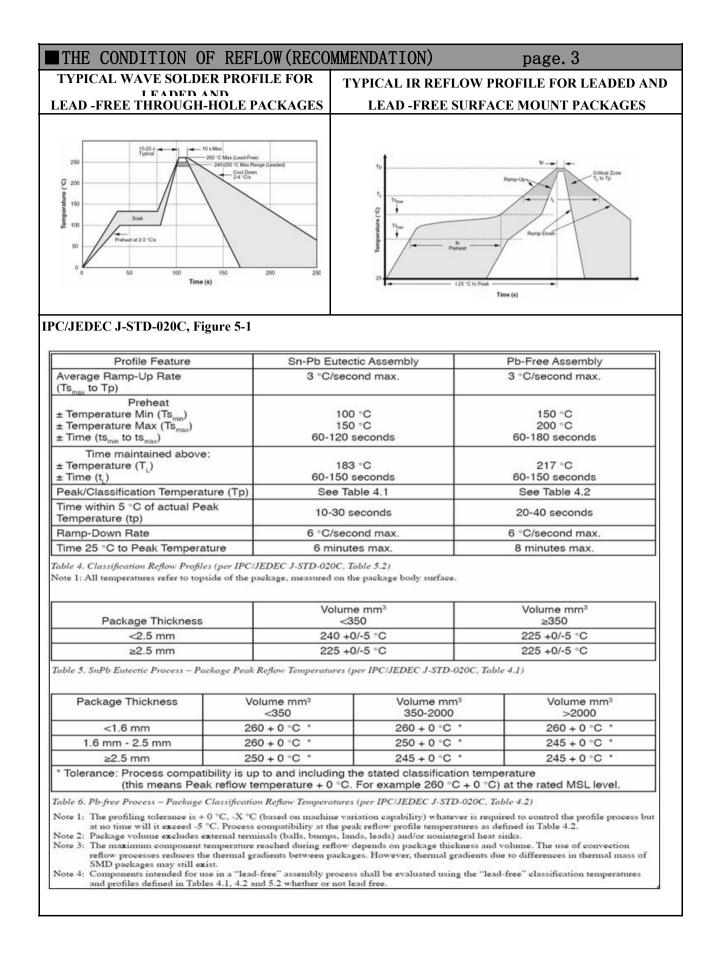
2.TEST CONDITION	APPROVED BY
TEMP. 25°C R.H. 65%	
3.TEST INSTRUMENTS	Ouyang weijun
HP-4284A METER CH-3305 METER	
■HP-4285A METER □CD1068+CD1320 METER	CHECKED BY
HP-4191A METER VR113+VR712 METER	Xuqiuyue
CH101 LCR,METER WK3260B+WK3265B METER	Auquuyue
VR116+VR7220 METER VR562 METER	DRAWN BY
CH-3200 METER CH-502B DCR METER	chenlinli
CH-310 METER	Chenhhi

GENERAL CHARA	CTERISTICS page. 1		
Operation Temperature	-40°C to +125°C (Includes temperature when the coil is heated)		
External Appearance	On visual inspection, the coil has no external defects.		
	More than 90% of terminal electrode should be covered with solder.		
Solder Ability Test	l After fluxing, component shall be dipped in a dipped in a melted. Solder:bath at $235^{\circ}C \pm 5^{\circ}C$ for $5 \pm 0.5$ second 150 $^{\circ}C$ second $5\pm 0.5$ second		
Heat endurance of Solderin	<ul> <li>1.Components should have not evidence of electrical and mechanical damage.</li> <li>2.Inductance: within±10% of initial value.</li> <li>3.Impedance: within±10% of initial value.</li> <li>Preheat:150±5°C 60seconds.</li> <li>Solder temperature: 250±5°C.</li> <li>Flux: rosin.</li> <li>Dip time:10±0.5seconds.</li> </ul>		
Terminal Strength	After soldering of X,Y withstanding at below conditions .The terminal should not Peel off. (Refer to figure at below) 5N:6 y		
Insulating Resistance	Over 100M $\Omega$ at 100V D.C. between coil and core.		
Dielectric Strength	No dielectric breakdown at 30V D.C. for 1 minute between coil and core.		
VibrationTest	Inductance deviation within +10% after vibration for 1 hour. In each of three orientations at sweep vibration(10-~55-~10HZ)with 1.5mmP-P amplitudes		
Drop test	Inductance deviation within +10% after being dropped once with 981m/s2 (100G) shock Attitude upon a rubber block method shock testing machine, in three different orientations		
<ul> <li>(2) Products should be used</li> <li>(3) The packaging material</li> <li><b>2.</b> Handling</li> <li>(1) Do not touch the electro</li> <li>(2) The use of tweezers or value</li> </ul>	ty of terminal electrodes: ity conditions: less than 40°C and 70% RH.		

GENERAL CHARACTE	ERISTICS	page. 2
TEST	Required Characteristics	Test Method/Condition
High Temperature StorageTest Reference documents: MIL-STD-202G Method108A	<ol> <li>No case deformation or change in appearance</li> <li>△L/L≦10%</li> <li>△Q/Q≦30%</li> <li>△DCR/DCR≦10%</li> </ol>	Temp 125°C High temperature 25°C 0°C High temperature 96H Test Time Temperature: 125°C $\pm 2^{\circ}$ C Time: 96 $\pm 2$ hours. Tested not less than 1 hour, nor more than 2 hours at room.
Low Temperature Storage Test Reference documents: IEC 68-2-1A 6.1 6.2	<ol> <li>No case deformation or change in appearance</li> <li>△L/L≦10%</li> <li>△Q/Q≦30%</li> <li>△DCR/DCR≦10%</li> </ol>	25°C 96H Test 0°C High temperature 40°C T Tested not less than 1 hour, nor more than 2 hours at room.
Humidity Test Reference documents: MIL-STD-202G Method103B	<ol> <li>No case deformation or change in appearance</li> <li>△L/L≦10%</li> <li>△Q/Q≦30%</li> <li>△DCR/DCR≦10%</li> </ol>	<ul> <li>40℃ 93%RH High temperature High humidity 25℃ 0℃</li> <li>1. Dry oven at a temperature of 40°C±2°C for 96hours</li> <li>2. Measurements At the end of this period</li> <li>3. Exposure: Temperature: 40°C±2°C. Humidity:93±2hoyrs.</li> <li>4. Tested while the chamber.</li> <li>5. Tested not less than 1 hour. Nor more than 2 hours at room temperature.</li> </ul>
Thermal Shock Test Reference documents: MIL-STD-202G Method107G	<ol> <li>No case deformation or change in appearance</li> <li>△L/L≦10%</li> <li>△Q/Q≦30%</li> <li>△DCR/DCR≦10%</li> </ol>	First-40°C for 30 Minutes, last 125°C for 30 Minutes as 1 cycle. Go through 20 cycles.

#### ■Application Notice/Handling

- (1) Temperature and humidity conditions : less than  $40^{\circ}$ C and 70% RH.
- (2) Products should be used within 6 months.
- (3) The packaging material should be kept where no chlorine or sulfur exists in the air.
- (4) Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability
- (5) The use of tweezers or vacuum pick-ups is strongly recommended for individual components.
- (6) Bulk handling should ensure that abrasion and mechanical shock are minimized.



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