承認書

SPECIFICATION FOR APPROVA

CUSTOMER:		
CUSTOMER P/N:		
CUSTOMER PART NO:		
DESCRIPTION:	SMD INDUCTOR	
PRODUCTS NO:	BCIHP0412-R68M	
FIRST DATE:	2019-10-22	BC REV: X1
DATE:	2019-10-22	

PURCHASER CONFIRMED							
APPROVAL BY	СНЕСК ВҮ	DRAWN BY					

REMARK			

PROVIDER ENGINEER 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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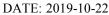
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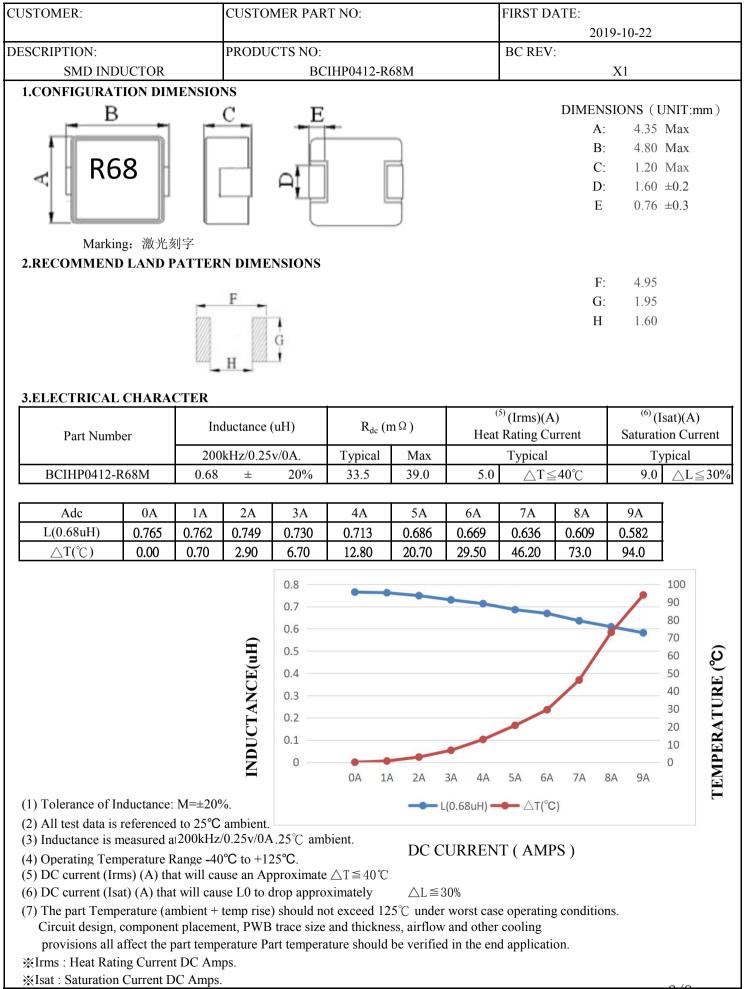
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SPECIFICATION FOR APPROVAL

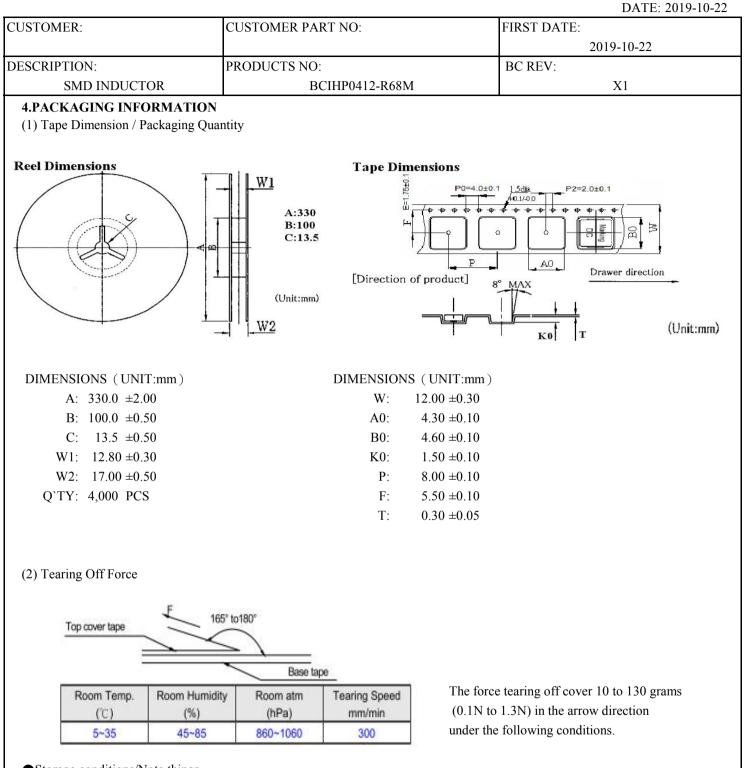
ROHS Compliant





ROHS Compliant

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.

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SAMPLE ACKNOWLEDGE CHANGE RESUME

DATE: 2019-10-22

CU	USTOMER			CUSTOMER PART	NO:	FIR	ST DATE: 2019-10-	22	
DI	ESCRIPTIC SN		UCTOR	PRODUCTS NO: BCIF	IP0412-R68M	BC	BC REV: X1		
	REV		Cha	ange content	Change	reason	Modify	Date	
	X1	00		首次	首次)	送样	chenlinli	2019-10-22	

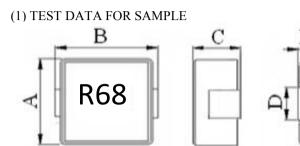
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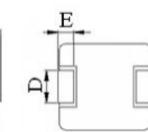
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TEST DATA

DATE: 2019-10-22

CUSTOMER:	CUSTOMER PART NO:	FIRST DATE:
		2019-10-22
DESCRIPTION:	PRODUCTS NO:	BC REV:
SMD INDUCTOR	BCIHP0412-R68M	X1





LOT NO	LOT NO.						
DIMEN	DIMENSIONS (UNIT:mm)						
А	4.35	Max					
В	4.80	Max					
С	1.20	Max					
D	1.60	±0.2					
Е	0.76	±0.3					

	TEST	ITEM				SPEC		TEST C	ONDITIO	N
1 Ind	Inductance (uH)		0.68	±	20%	200kHz	z/0.25v/0A			
2 Rd	$c(m\Omega)$				39.0 Max					
3 (6)	(Isat)(A)Satur	ration Cu	rrent DC.	Amps	9.0	∆L≦	30%			
4 (5)	(Irms)(A)Hea	t Rating (Current D	C Amps	5.0	$\triangle T \leq 40$	°C			
MEAS ITEN	M A	В	С	D	Е			1	2	3
SUGGEST	4.350	4.800	1.200	1.600	0.760			0.68	39.0	9.0
SUGGEST	Max	Max	Max	±0.2	±0.3			± 20%	Max	$\triangle L \leq 30\%$
1	4.04	4.39	1.11					0.674	32.4	75%
2	4.05	4.36	1.13					0.674	32.56	76%
3	4.04	4.37	1.13					0.696	32.01	77%
4	4.05	4.38	1.11					0.688	33.71	75%
5	4.06	4.37	1.13					0.689	31.92	75%
6	4.06	4.39	1.14					0.631	34.73	76%
7	4.05	4.37	1.14					0.691	32.61	75%
8	4.04	4.38	1.12					0.625	33.82	75%
9	4.05	4.37	1.12					0.662	32.37	76%
10	4.06	4.39	1.13					0.684	32.78	78%
11										
12										
13										
14										
15							ļ			
max	4.06	4.39	1.14				ļ	0.70	34.73	78.0%
min	4.04	4.36	1.11					0.63	31.92	75.0%
σ	0.008	0.010	0.010					0.024	0.857	0.010
Х	4.05	4.38	1.13				 	0.67	32.89	75.8%
Cpk	12.91	14.03	2.42					2.03	2.38	280.40

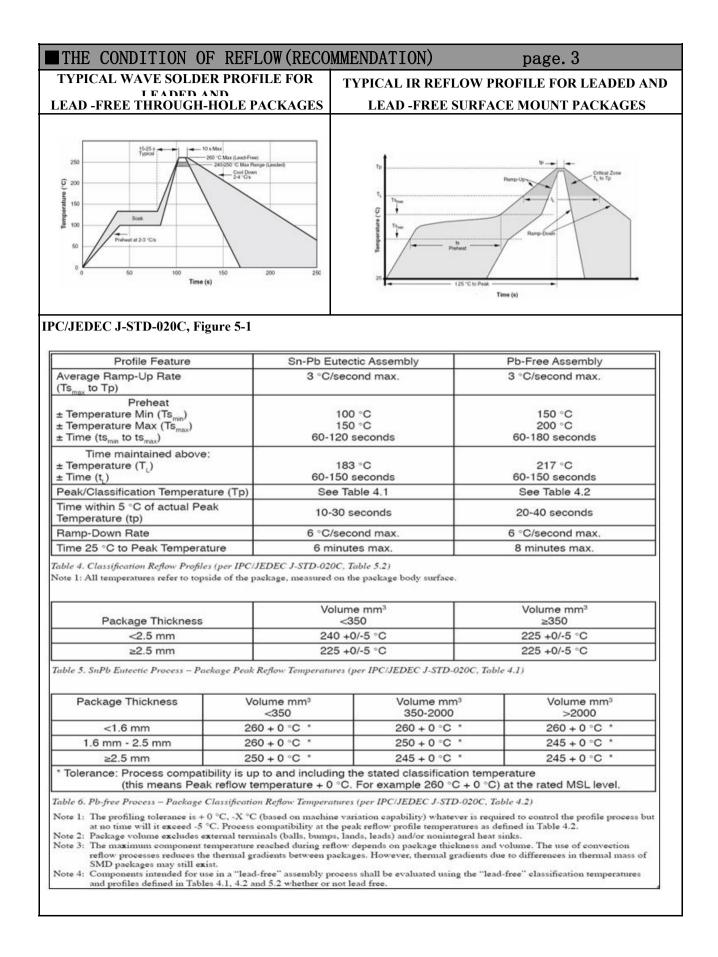
2. TEST CONDITION	APPROVED BY
TEMP. 25°C R.H. 65%	
3.TEST INSTRUMENTS	ouyangweijun
HP-4284A METER CH-3305 METER	
HP-4285A METER CD1068+CD1320 METER	CHECKED BY
HP-4191A METER VR113+VR712 METER	Vugiumo
CH101 LCR,METER WK3260B+WK3265B METER	Xuqiuyue
VR116+VR7220 METER VR562 METER	DRAWN BY
CH-3200 METER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

GENERAL CHARAC	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	1 After fluxing, component shall be dipped in a dipped in a melted. Solder:bath at $235^{\circ}C \pm 5^{\circ}C$ for 5 ± 0.5 second 150 C second 5\pm 0.5 second				
	 1.Components should have not evidence of electrical and mechanical damage. 2.Inductance: within±10% of initial value. 3.Impedance: within±10% of initial value. Preheat:150±5°C 60seconds. Solder temperature: 250±5°C. Flux: rosin. Dip time:10±0.5seconds. 				
Terminal Strength	After soldering of X,Y withstanding at below conditions .The terminal should not Peel off. (Refer to figure at below) 5N:6				
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				
 (2) Products should be used (3) The packaging material 2. Handling (1) Do not touch the electro 	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	 No case deformation or change in appearance △L/L≦10% △Q/Q≦30% △DCR/DCR≦10% 	Temp 125°C High temperature 25°C 0°C High temperature 1H 96H Test Time Temperature: 125°C \pm 2°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	 No case deformation or change in appearance △L/L≦10% △Q/Q≦30% △DCR/DCR≦10% 	25°C 96H Test 1H 1H 1H Time 40°C T Tested not less than 1 hour, nor more than 2 hours at room.
Humidity Test Reference documents: MIL-STD-202G Method103B	 No case deformation or change in appearance △L/L≦10% △Q/Q≦30% △DCR/DCR≦10% 	 40℃ 93%RH High temperature High humidity 25℃ 0℃ 1. Dry oven at a temperature of 40°C±2°C for 96hours 2. Measurements At the end of this period 3. Exposure: Temperature: 40°C±2°C. Humidity:93±2hoyrs. 4. Tested while the chamber. 5. Tested not less than 1 hour. Nor more than 2 hours at room temperature.
Thermal Shock Test Reference documents: MIL-STD-202G Method107G	 No case deformation or change in appearance △L/L≦10% △Q/Q≦30% △DCR/DCR≦10% 	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° C and 70% RH.
- (2) Products should be used within 6 months.
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- (4) Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability
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