承認書

SPECIFICATION FOR APPROVA

CUSTOMER:		
CUSTOMER P/N:		
CUSTOMER PART NO:		
DESCRIPTION:	SMD INDUCTOR	
PRODUCTS NO:	BCIHP1040-101M	
FIRST DATE:	2020-3-26	BC REV: X1
DATE:	2020-3-26	

PURCHASER CONFIRMED					
APPROVAL BY	СНЕСК ВҮ	DRA WN BY			

REMARK		

PROVIDER ENGINEER DEPT.				
APPROVAL BY CHECK BY DRAWN BY				
Yasir	Yasir	chenlinli		

CHENG 誠陽實業有限公司

TAIPEI OFF ICE 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



寶誠電子有限公司

CHINA FACTORYZHUHAI 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鎭官塘工業區 POSTAL CODE: 519085

TEL NO:86-756-3383187 FAX NO:86-756-3380704 E-mail: baocheng@baocheng.biz

CHENG 昆山誠陽電子有限公司

CHINA FACTORYKUNSHAN CHENG YANG ELECTRONICSCO., LTDP

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

SPECIFICATION FOR APPROVAL

ROHS Compliant



%Irms : Heat Rating Current DC Amps.

XIsat : Saturation Current DC Amps.

ROHS Compliant

SPECIFICATION FOR APPROVAL

DATE: 2020-3-26



- 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.

ROHS Compliant

SAMPLE ACKNOWLEDGE CHANGE RESUME

DATE: 2020-3-26

CUSTOMER: CUSTOM		CUSTOMER PART N	1O:	FIRST DATE:		
	0				2020-3-26	
DESCRIPT	ION:	PRODUCTS NO:		040 10135	BC REV:	
SN	AD IND	UCTOR	BCIHP1	040-101M	XI	
DEV		Chang	o contont	Change Maggan	Modify	Data
KEV		Chang	e content	Change reason	моатту	Date
X1	00		首次	首次送样	chenlinli	2018-12-21
	1			I	1	

ROHS Compliant

TEST DATA

DATE: 2020-3-26

CUSTOMER:	CUSTOMER PART NO:	FIRST DATE:
0		2020-3-26
DESCRIPTION:	PRODUCTS NO:	BC REV:
SMD INDUCTOR	BCIHP1040-101M	X1





LOT NO.						
DIMENS	DIMENSIONS (UNIT:mm)					
А	10.20	Max				
В	11.50	Max				
С	4.00	Max				
D	4.10	±0.3				
E	2.00	±0.3				

	TEST ITEM		SPEC	TEST CONDITION
1	Inductance (uH)	100.0	± 20%	200kHz/0.25v/0A.
2	Rdc (mΩ)	385.0	Max	
3	(6) (Isat)(A)Saturation Current DC Amps	3.0	$\triangle L \leq 20\%$	
4	(5) (Irms)(A)Heat Rating Current DC Amp	2.25	∧T≦40°C	

-	-	-			_			-	
MEAS ITEM	Α	В	С	D	Е		1	2	3
SUCCEST	10.20	11.50	4.00	4.10	2.00		100.0	385.0	3.0
SUGGEST	Max	Max	Max	±0.3	±0.3		± 20%	Max	$\triangle L \leq 20\%$
1	10.04	10.83	3.95	4.10	2.00		99.80	339.70	80%
2	10.03	10.81	3.91	4.10	2.00		95.62	359.70	83%
3	10.05	10.84	3.89	4.10	2.00		93.33	352.80	82%
4	10.03	10.79	3.92	4.10	2.00		99.17	345.10	81%
5	10.06	10.83	3.93	4.10	2.00		100.70	347.10	84%
6	10.04	10.82	3.90	4.10	2.00		97.25	338.20	82%
7	10.07	10.84	3.91	4.10	2.00		97.91	356.00	83%
8	10.09	10.80	3.92	4.10	2.00		100.10	353.70	82%
9	10.02	10.85	3.92	4.10	2.00		96.22	345.60	81%
10	10.05	10.82	3.89	4.10	2.00		97.77	349.30	84%
11									
12									
13									
14									
15									
max	10.09	10.85	3.95				100.70	359.70	84.0%
min	10.02	10.79	3.89				93.33	338.20	80.0%
σ	0.020	0.018	0.017			1	2.171	6.579	0.012
Х	10.05	10.82	3.91				97.79	348.72	82.2%
Cpk	2.55	12.60	1 64				3 41	1 84	58.13

2.TEST CONDITION	APPROVED BY
TEMP. 25°C R.H. 65%	
3.TEST INSTRUMENTS	Yasir
HP-4284A METER CH-3305 METER	
HP-4285A METER CD1068+CD1320 METER	CHECKED BY
HP-4191A METER VR113+VR712 METER	Vacir
CH101 LCR,METER WK3260B+WK3265B METER	1 8511
VR116+VR7220 METI VR562 METER	DRAWN BY
CH-3200 METER CH-502B DCR METER	ahanlinli
CH-310 METER	cheminii

GENERAL CHARA	CTERISTICS	page. 1
Operation Temperature	-40°C to +125°C (Includes temperature when the con-	il is heated)
External Appearance	On visual inspection, the coil has no external defects	3.
Solder Ability Test	More than 90% of terminal electrode should be cover 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 senonds 1500	Preheating Dipping Natural cooling
Heat endurance of Solderin	 1.Components should have not evidence of electrica 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. 	l and mechanical damage. Preheating Dipping Natural cooling
Terminal Strength	After soldering of X,Y withstanding at below condit off. (Refer to figure at below)	5N:6
Insulating Resistance	Over 100M Ω at 100V D.C. between coil and core.	
Dielectric Strength	No dielectric breakdown at 30V D.C. for 1 minute b	etween coil and core.
VibrationTest	Inductance deviation within +10% after vibration for orientations at sweep vibration(10-~55-~10HZ)with	or 1 hour. In each of three 1.5mmP-P amplitudes
Drop test	Inductance deviation within +10% after being dropp shock Attitude upon a rubber block method shock to orientations	ed once with 981m/s2 (100G) esting machine, in three different
 Application Notice/Hand Storage Conditions Storage Conditions Storage Conditions To maintain the solder abilities Temperature and humid Products should be used The packaging material Handling Do not touch the electron The use of tweezers or weight Bulk handling should error 	dling ty of terminal electrodes: ity conditions: less than 40°C and 70% RH. I within 6 months. should be kept where no chlorine or sulfur exists in t des(soldering terminals)with fingers as this may lead vacuum pick-ups is strongly recommended for individuation usure that abrasion and mechanical shock are minimized	he air. to deterioration of solderability. dual components. zed.

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% 	Temperature: $125^{\circ}C \pm 2^{\circ}C$ Time: 96 ± 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 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	 No case deformation or change in appearance △L/L≤10% △Q/Q≤30% △DCR/DCR≤10% 	 Temp&Hunidity 93%RH High temperature High hunidity 25° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°
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.
- (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.

