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Documen Name		SPEC-WB0613(H SPEC-WB0614(H)-XXXXX	Dat	e Revised vised Edition	2010/04/28 2021/09/13 A4
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版本号		变更内容	日期		制订	核准
A3		新版发行	2010/8/	28	于小芳	Leo_he
A4	增加?	34#电流及变更履历	2021/9/	/13	于小芳	Leo_he
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		<u>-INDEX-</u>		
1	SCOPE			
2	APPLICAB	BLE DOCUMENTS		
3	REQUIREN	MENTS		
4	MATING/U	NMATING METHOD CONNECTO	DR	
5	INFRARED	REFLOW CONDITION		

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Leo-he		Xuyangyang	YuXiaoFang		

1. SCOPE:

.1.1. CONTENTS

This specification covers the performance, tests and quality requirements for the 0.6 mm pitch wire To board connector series

1.2. QUALIFICATION

When tests are performed on the subject product line, the procedures specified in

CRS **WB0613/WB0614**series specifications shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

2. APPLICABLE DOCUMENTS:

The following CRS documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies.

In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

3. REQUIREMENTS

3.1. DESIGN AND CONSTRUCTION

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing.

	-		
NO	DIMENSIONS	MATERIAL	PLATING&COLOR
1	Housing	LCP	BLACK
	(WB0613/WB0614)		
2	Terminal	Dhoonbor bronzo	G/F
2	(WB0613/WB0614)	Phosphor bronze	
2	Cover	Dhoonbor bronzo	TIN
3	(WB0614)	Phosphor bronze	

3.2. MATERIALS

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	3.3. RATING					
	A. Curre	ent Rating: 0.	.2A DC (Per Pin) AWG #36			
		0.	3A DC (Per Pin) AWG #34			
	B. Volta	ge Rating: 3				
		• •	ıge: -40°C ~ +85°C			
			AWG #34 AWG#36			
			§ 0.29±0.02mm(AWG#36); § 0	32+0 02mm(AWG	#34)	
			[©] 0.29±0.02mm(AWG#30), [©] 0	•	"UT)	
The				-		
			o meet the electrical, mechanical a	and environmental pe	enormance	
-	iirements speci	_				
_	LEST BEU			SIIMMARY		
:• 			ITS AND PROCEDURES			
	TEST DESCRI		REQUIREMENTS	PROCEDUI	RES	
	· · · · · · · · · · · · · · · · · · ·		REQUIREMENTS			
	· · · · · · · · · · · · · · · · · · ·	PTION	REQUIREMENTS Meet requirements of product	PROCEDU Visual, dimensional	and	
	TEST DESCRI	PTION	REQUIREMENTS	PROCEDU Visual, dimensional functional Per applic	and	
	TEST DESCRI	PTION	REQUIREMENTS Meet requirements of product	PROCEDU Visual, dimensional	and	
-	TEST DESCRI	PTION	REQUIREMENTS Meet requirements of product	PROCEDU Visual, dimensional functional Per applic	and	
	TEST DESCRI	PTION	REQUIREMENTS Meet requirements of product	PROCEDU Visual, dimensional functional Per applic	and	
	TEST DESCRI	PTION	REQUIREMENTS Meet requirements of product drawing Electrical Requirement	PROCEDU Visual, dimensional functional Per applic	and cable quality	
1	TEST DESCRI	PTION of product	REQUIREMENTS Meet requirements of product drawing Electrical Requirement 40mΩ Max Initial	PROCEDUI Visual, dimensional functional Per applic inspection plan Mated connector, 20 Open circuit at 10 m	and cable quality 0 mV Max.	
	Examination	PTION of product	REQUIREMENTS Meet requirements of product drawing Electrical Requirement	PROCEDUI Visual, dimensional functional Per applie inspection plan Mated connector, 20 Open circuit at 10 m Wire length:30mm	and cable quality 0 mV Max.	
1	Examination of Contact Resist	PTION of product	REQUIREMENTS Meet requirements of product drawing Electrical Requirement 40mΩ Max Initial	PROCEDUI Visual, dimensional functional Per applic inspection plan Mated connector, 20 Open circuit at 10 m	and cable quality 0 mV Max.	
1	Examination of Contact Resist	PTION of product	REQUIREMENTS Meet requirements of product drawing Electrical Requirement 40mΩ Max Initial	PROCEDUI Visual, dimensional functional Per applie inspection plan Mated connector, 20 Open circuit at 10 m Wire length:30mm	and cable quality 0 mV Max.	
1	Examination of Contact Resist	PTION of product	REQUIREMENTS Meet requirements of product drawing Electrical Requirement 40mΩ Max Initial	PROCEDUI Visual, dimensional functional Per applie inspection plan Mated connector, 20 Open circuit at 10 m Wire length:30mm	and cable quality 0 mV Max. nA Max.	
2	Examination of Contact Resist (Low Level)	PTION of product stance	REQUIREMENTS Meet requirements of product drawing Electrical Requirement 40mΩ Max Initial 50mΩ Max. After environmental	PROCEDUI Visual, dimensional functional Per applie inspection plan Mated connector, 20 Open circuit at 10 m Wire length:30mm EIA 364-23	and cable quality 0 mV Max. nA Max. rs , apply	
1	Examination of Contact Resist	PTION of product stance	REQUIREMENTS Meet requirements of product drawing Electrical Requirement 40mΩ Max Initial	PROCEDUI Visual, dimensional functional Per applie inspection plan Mated connector, 20 Open circuit at 10 m Wire length:30mm EIA 364-23 Unmated connector	and cable quality 0 mV Max. nA Max. rs , apply adjacent	
2	Examination of Contact Resist (Low Level)	PTION of product stance	REQUIREMENTS Meet requirements of product drawing Electrical Requirement 40mΩ Max Initial 50mΩ Max. After environmental	PROCEDUI Visual, dimensional functional Per applie inspection plan Mated connector, 20 Open circuit at 10 m Wire length:30mm EIA 364-23 Unmated connector 100V DC between a terminals. EIA 364	and cable quality 0 mV Max. nA Max. rs , apply adjacent	
2	Examination of Contact Resist (Low Level)	PTION of product stance	REQUIREMENTS Meet requirements of product drawing Electrical Requirement 40mΩ Max Initial 50mΩ Max. After environmental	PROCEDUI Visual, dimensional functional Per applie inspection plan Mated connector, 20 Open circuit at 10 m Wire length:30mm EIA 364-23 Unmated connector 100V DC between a	and cable quality 0 mV Max. nA Max. rs , apply adjacent I-21 100 V DC	

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	4			No discharge,flashover or breakdown. Current leakage: 2mA Max.	200V AC 1 minute. between adjacent ci contact. EIA 364-20	
				MECHANICAL REQUIREMENT		
	5	Vibration		No discontinuities 1 microsecond or long duration.	The electrical load of shall be 100 mA matcontacts. Subject harmonic motion hat amplitude of 0.76m maximum total excut frequency between 10 and 55 Hz. The frequency range, fro Hz and return to 10 traversed in approx minute. This motion applied for 2 hours three mutually perp directions. (EIA-364-28 Condition	aximum for a to a simple aving m (1.52mm ursion) in the limits of e entire om 10 to 55 Hz, shall be imately 1 on shall be in each of endicular

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	Name		C-WB0613(H)-XXXXX C-WB0614(H)-XXXXX			e Revised ised Edition	A4		
						ect mated conn			
						's (peak value)			
			Appearance :N	o damage ;	shoc	k pulses of 11 r	millisecond		
				ies 1 microsecono	durat	tion. Three sh	locks in		
6	Physical shock	ĸ	or long duration	า.	each	direction shall	be applied		
					along	g the three mut	ually		
					perpe	endicular axes	of the test		
					spec	imen (18 shock	s). The		
					elect	rical load condi	tion shall		
					be 10	00mA maximun	n for all		
					conta	acts.			
						·364-27, test co	ndition A)		
					1				
			30 Cycle			ing and unmate	• ·		
7	Durability	urability) cycles at a spe			
						5±3mm/minut	е		
					(EIA-	364-13)			
					Meas	sure the force re	equired to		
					mate	and unmate the	e		
8	Insertion And	Removal	See table			ector.			
	Force					Speed: 25±3mm/minute.Test			
						Method: EIA-364-13,			
RE	QUIREMENTS								
	Number of		At in	nitial		At 30	th		
	СКТ		(c)1 f		
		<u> </u>	(\max) kgf	<u>R.F. (min.)k</u>	1,	<u>R.F. (min</u>			
	4		1.4	0.35		0.25	1		
					A base	contact shall be n	nounted in		
						and pulled in alig			
0	Contract min D	tantian Free	60 a min	:	a consta	ant speed of 25 m	im per		
9	Contact pin Re	tention Force	oug min.			The Load to pull out of the wafer			
L]	neasure	eu.			

Do	S Precisio ocument Name	SPE	ronic Co., LTD C-WB0613(H)-XXXXX C-WB0614(H)-XXXXX		Control NO Issued BY Date Issued Date Revised Revised Edition	EI002 ED 2016/04/28 2021/09/13 A4
10	Wire Retention		Parallel direction: AWG#34 : 0.25kgf min. Perpendicular direction: AWG#34 : 0.10 kgf	b c c m o	Pulling load shall be appetween a correctly term ontact and the wire at the onstant speed of 25mm ninute. The load to pull ut of the contact or breachall be measured. (1~5mm)	blied hinated he per the wire ak the wire
Note If ne		ce more, You	Fig1 Parallel Direction Per must use the UV glue.		Fig2	
			ENVIRONMENTAL			
11	Temperature	Rise	$30^\circ C$ Max. Change allowed		Mate connector: me the temperature rise current until tempera stable. The ambient condition is still air a (EIA-364-70 METHO 1,CONDITION 1)	at rated ature t 25°C
12	Thermal shoc	k	Appearance: No damage Contact Resistance: 40mΩ Max Initial 50mΩ Max Final		Subject mated si 5 cycles 1 cycles: -55°C 30minutes 85°C 30minutes (EIA-364-32, test cor	amples to

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13 Salt Spray (Only For Gold Plating) 14 Humidity 15 Cold Resistance		No evident corrosion. Contact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance:100MΩ Min	-		
		$\frac{1}{10000} = \frac{1}{10000} = \frac{1}{100000} = \frac{1}{100000} = \frac{1}{10000000000000000000000000000000000$			
	Cument Jame Salt Spray (Only For Gol Humidity Cold Resista	cument SPI Jame SPI Salt Spray (Only For Gold Plating) Humidity	NameSPEC-WB0614(H)-XXXXXSalt SprayNo evident corrosion. Contact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance:100MΩ MinHumidityContact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance:100MΩ MinHumidityContact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance:100MΩ MinCold ResistanceContact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance:100MΩ MinCold ResistanceContact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance: 100MΩ MinTemperature LifeContact Resistance: 40mΩ Max Initial	Precision electronic Co., LTD Issued BY Date Issued cument Name SPEC-WB0613(H)-XXXXX SPEC-WB0614(H)-XXXXX Date Revised Revised Edition Salt Spray (Only For Gold Plating) No evident corrosion. Contact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance:100MΩ Subject mated sam 35℃±2℃, 5+1% Sa 8 hours Humidity Contact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance:100MΩ Mated connectors es subjected to the foll condition. Humidity Contact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance:100MΩ Mated connectors es subjected to the foll condition. Cold Resistance Contact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance: 100MΩ Mated connector. 40℃±2℃, 96 Hours After test, recondititi standard atmosphe for 2 hours.JIS CO0 Min. Cold Resistance Contact Resistance: 40mΩ Max Initial 50mΩ Max Final Insulation Resistance: 100MΩ Mated connector. 40℃±2℃, 96 Hours After test, recondititi standard atmosphe for 2 hours.JIS CO0 Min. Temperature Life Contact Resistance: 40mΩ Max Initial 50mΩ Max Final Subject mated sam temperature life at thours.EIA 364-17B	

Figure 1 (End)

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NOTE : Shall me	et visual requireme	ents, s	show	no pl	hysic	al da	mage	e, and	d mee	et req	luirer	nent	
of additio	nal tests as specifi	ed in	the te	est se	equer	nce ir	n Figi	ures 2	2				
3.6. PROD	UCT QUALIFICATIO	ON AN	D RE	QUA	LIFIC	ΑΤΙΟ	N TE	ST					
						Tes	st Gr	oup					
Test of F	xamination	А	В	С	D	Ε	F	G	Н		J	K	
			1	1		Test		ience			1		-
1 · Examination of		1,9	1,5	1,7	1,3	1,3	1,5	1,5	1,3	1,5	1,7	1,5	-
	tance(Low Level)	2,6	2,4	2,6			2,4	2,4		2,4	2,5	2,4	-
3 Insulation Res 		3,7									3,6		-
4 Dielectric with	standing Voltage	4,8											_
5 Vibration			3										
6 Physical shoc	k						3						
7 Durability				4									
8 · Insertion And	Removal Force			3,5									
9 · Contact Retenti	on Force				2								
10 · Wire Retentio	n Force.					2							
11 · Temperature	Rise							3					
12 · Thermal shock									2				
13 · Salt Spray										3			
14 · Humidity		5											
15 · Cold Resista	ince										4		1
16 · Temperature	Life											3	
				Figu	re 2	•							-

NOTE (a) Numbers indicate sequence in which tests are performed.

(b) Discontinuities shall not take place in this test group, during tests.

