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Decument	SPEC-WB1506H-HXXXX		Date	e Revised	2021/10/18
Document	SPEC-WB1506-TX		Rev	ised Edition	
Name	SPEC-WB1505H-XXXXX SPEC-WB1519H-XXXXX				A1
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版本号	变更内容	日期		制订	核准
AO	新版发行	2019-02-28	8	于小芳	Leo_he
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CK2 Pre	cision ele	ectronic Co., LID	Date Issued	2019/08/28
	SPEC-WB150	06H-HXXXX	Date Revised	2021/10/18
Document	SPEC-WB150)6-TX	Revised Edition	1
Name	SPEC-WB150	05H-XXXXX		A1
	SPEC-WB151	9H-XXXXX		
 一. SCOPE 二. APPLICABL 三. REQUIREMI 四. TEST REQU 五. REFLOW TE 六. PRODUCT Q 七. MATING / U 	E DOCUMEN ENTS IREMENTS A MPERATUR UALIFICATI NMATING F	-INDEX- NTS AN PROCEDURES SUMP E PROFILE ION AND TEST SEQUEN ORCE	MARY ICE	
Approva	l By	Check By	Originat	or By
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-	SPEC-WB1506H-HXXXX	Date Revised	2021/10/18
Document	SPEC-WB1506-TX	Revised Edition	
Name	SPEC-WB1505H-XXXXX		A1
	SPEC-WB1519H-XXXXX		

1. SCOPE:

This specification covers performance, tests and quality requirements for 1.5mm pitch Wire to Board connector.

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

3.1.1Product shall be of design, construction and physical dimensions specified on applicable product drawing.

3.2 Materials and Finish

WB1505H-XXXX&WB1519H-XXXXX							
NO	DIMENSIONS	PLATING&COLOR					
1	Housing	Thermoplastic High Temp	UL94V-0				
2	terminal	copper alloy	MATTE TIN or Au PLATING				
3	Peg	copper alloy	MATTE TIN or Au PLATING				
		WB1506H-HXXXX &WB1506-TX					
NO	DIMENSIONS	MATERIAL	PLATING&COLOR				
1	Housing	PA66	UL94V-0 NATURAL				
2	terminal	copper alloy	MATTE TIN or Au PLATING				

3.3Ratings

3.3.1 Voltage: 50 Volts AC,DC (per pin) 3.3.2 Current: 3.0A AC,DC (AWG#26) 1.0A AC,DC (AWG#28) 1.0A AC,DC (AWG#30) 3.3.3 Operating Temperature : -40°C to +85°C

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Deeument	SPEC	-WB1506H-HXXXX		Date Revised	2021/10/18		
Document s		-WB1506-TX		Revised Edition	A 4		
Name	SPEC	-WB1509F-AAAA -WB1519H-XXXXX			AI		
4. Performance							
4.1Test Requirements and Procedures Summary			1				
Item		Requirement		Standard			
Examination of Produ	uct	Product shall meet requirements of	Vis	sual, dimensional and	functional per		
		applicable product drawing and	app	plicable quality inspec	tion plan.		
		specification.					
			•				
		ELECTRICAL					
Item		Requirement		Standard			
			Ma	ate connectors, measur	re by dry		
Low-signal Level		20 m Ω Max.(initial)per contact	cir	cuit, 20mV Max., 10n	nA		
Contact Resistance		$\triangle R \ 10 \ m \ \Omega \ Max.$	Ma	Max.			
			(EIA-364-23)				
			Un	Unmated connectors, apply			
Insulation Resistance	,	500M Ω Min.	500	500 V DC between adjacent termina			
			(EI	(EIA-364-21)			
		500 VAC Min. at sea level for 1	Tes	Test between adjacent contacts of			
Dielectric		minute.	unmated connectors.				
Withstanding Voltage	ć	No discharge flashover or breakdown					
	-	Current leakage: 1 mA max	(FIA-364-20)				
			Ma	ate connector: measur	e the		
			ton	aparatura risa at ratad	ourront until		
			ton	temperature rise at rated current unti			
Temperature rise		30℃ Max. Change allowed	ten	alitica is still signed a			
				Idition is suil air at 23			
			(EI	A-364-70 METHOD			
			1,0	CONDITION I)			
	MECHANICAL						
Item		Requirement		Standard			
			Th	e sample should be m	ounted in the		
			tester and fully mated and unmated the				
Durability		30 cycles.	number of cycles specified at the rat of 25.4 ± 3 mm/min.		ed at the rate		
-							
			(EI	(A-364-09)			
L							

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SPEC		On	eration Speed.			
		0p	$4 \pm 3 \text{ mm/minuto}$			
Mating / Humating Fama	Mating Force: See item 8. Unmating	23. M	$4 \perp 5 \text{ mm/mmute.}$	- 1 4 -		
Mating / Unmating Forces	Force: See item 8.	Me	asure the force require	ed to		
		ma	te/Unmate connector.			
		(EI	A-364-13)			
Contact		Op	eration Speed:			
Retention Force (Board	0.5kgf Min	25.	4 ± 3 mm/minute.			
Side)		Me	asure the contact reter	ntion force		
		wit	h Tensile strength test	er.		
Terminal / Housing		Ар	ply axial pull out forc	e at the		
Detention Fousing	0.71 6. (15)	spe	eed rate of 25.4 ± 3 mm/minute.			
Retention Force(Cable	0.7kgi min.	On	On the terminal assembled in the			
Side)	hc		iousing			
MECHANICAL						
Item	Requirement		Standard			
Item	Requirement	The	Standard e electrical load condi	tion shall be		
Item	Requirement	The 100	Standard e electrical load condi) mA maximum for al	tion shall be l contacts.		
Item	Requirement	The 100 Sul	Standard e electrical load condir) mA maximum for allo pject to a simple harm	tion shall be l contacts. onic motion		
Item	Requirement	The 100 Sub	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76	tion shall be l contacts. onic motion mm (1.52mm		
Item	Requirement	The 100 Sub hav ma	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursior	tion shall be l contacts. onic motion fmm (1.52mm n) in		
Item	Requirement	The 100 Sul hav ma free	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin	tion shall be l contacts. onic motion omm (1.52mm n) in mits of 10 and		
Item	Requirement	The 100 Sul hav ma free 55	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequ	tion shall be l contacts. onic motion mm (1.52mm h) in mits of 10 and hency range,		
Item	Requirement 1 μs Max.	The 100 Sub hav ma free 55 from	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent m 10 to 55 Hz and ret	tion shall be l contacts. onic motion form (1.52mm n) in mits of 10 and lency range, urn to 10 Hz,		
Item Vibration	Requirement 1 μs Max.	The 100 Sult hav ma free 55 from	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent m 10 to 55 Hz and retuin ll be traversed in appr	tion shall be l contacts. onic motion form (1.52mm n) in mits of 10 and hency range, urn to 10 Hz, roximately 1		
Item Vibration	Requirement 1 μs Max.	The 100 Sult hav ma free 55 from sha min	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent m 10 to 55 Hz and retuine Il be traversed in appri- nute. This motion sh	tion shall be l contacts. onic motion omm (1.52mm n) in mits of 10 and ency range, urn to 10 Hz, roximately 1 all be applied		
Item Vibration	Requirement 1 μs Max.	The 100 Sult hav ma free 55 from sha min for	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent Hz. The entire frequent Hz. The stand retuil enter the standard standard standard Hz. This motion sh 2 hours in each of thr	tion shall be l contacts. onic motion omm (1.52mm h) in mits of 10 and hency range, urn to 10 Hz, roximately 1 all be applied ee mutually		
Item Vibration	Requirement 1 μs Max.	The 100 Sult hav ma free 55 from sha min for	Standard e electrical load condir o mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent Hz. The entire frequent lb to 55 Hz and retri- nute. This motion sh 2 hours in each of thr pendicular directions	tion shall be l contacts. onic motion fmm (1.52mm n) in mits of 10 and hency range, urn to 10 Hz, roximately 1 all be applied ee mutually		
Item Vibration	Requirement 1 μs Max.	The 100 Sult hav ma free 55 from sha min for per (FI	Standard e electrical load condir o mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent m 10 to 55 Hz and retuined Il be traversed in appri- nute. This motion sh 2 hours in each of thr pendicular directions.	tion shall be l contacts. onic motion omm (1.52mm n) in mits of 10 and ency range, urn to 10 Hz, roximately 1 all be applied ee mutually		
Item Vibration	Requirement 1 μs Max.	The 100 Sult hav ma free 55 from sha min for per (EI	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent m 10 to 55 Hz and retuined and the traversed in appre- nute. This motion sh 2 hours in each of thr pendicular directions. A-364-28 Condition I	tion shall be l contacts. onic motion fmm (1.52mm h) in mits of 10 and hency range, urn to 10 Hz, roximately 1 all be applied ee mutually		
Item Vibration	Requirement 1 μs Max.	The 100 Sult hav ma free 55 from sha min for per (EI Sult 50	Standard e electrical load condir o mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent Hz. The entire frequent I to 55 Hz and retuin 10 to 55 Hz and retuin 11 be traversed in appre- nute. This motion sh 2 hours in each of the pendicular directions. A-364-28 Condition I oject mated connectors	tion shall be l contacts. onic motion fmm (1.52mm n) in mits of 10 and hency range, urn to 10 Hz, roximately 1 all be applied ee mutually) s to		
Item Vibration	Requirement 1 μs Max.	The 100 Sult hav ma free 55 from sha min for per (EI Sult 50	Standard e electrical load condir o mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent m 10 to 55 Hz and retuil Il be traversed in appri- nute. This motion sh 2 hours in each of thr pendicular directions. A-364-28 Condition I oject mated connectors G' s (peak value) hal	tion shall be l contacts. onic motion fmm (1.52mm n) in mits of 10 and tency range, urn to 10 Hz, roximately 1 all be applied ee mutually) s to if-sine shock		
Item Vibration Shock (Mechanical)	Requirement 1 μs Max. 1 μs Max.	The 100 Sult hav ma free 55 from sha min for per (EI Sult 50 pul	Standard e electrical load condir) mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent m 10 to 55 Hz and return 10 to 55 Hz and return ute. This motion sh 2 hours in each of thr pendicular directions. A-364-28 Condition I oject mated connectors G' s (peak value) hall ses of 11 milliseconds	tion shall be l contacts. onic motion fmm (1.52mm n) in mits of 10 and tency range, turn to 10 Hz, roximately 1 all be applied ee mutually) s to if-sine shock		
Item Vibration Shock (Mechanical)	Requirement 1 μs Max. 1 μs Max.	The 100 Sult hav ma free 55 from sha min for per (EI Sult 50 pul Thu	Standard e electrical load condir o mA maximum for all oject to a simple harm ving amplitude of 0.76 ximum total excursion quency between the lin Hz. The entire frequent the traversed in appro- nute. This motion sh 2 hours in each of thr pendicular directions. A-364-28 Condition I oject mated connectors G' s (peak value) hal ses of 11 milliseconds ree shocks in each directions	tion shall be l contacts. onic motion fmm (1.52mm n) in mits of 10 and hency range, urn to 10 Hz, roximately 1 all be applied ee mutually) s to if-sine shock s duration. ection shall be		

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	per	pendicular axes of the	test	
	spe	cimen (18 shocks).	The electrical	
	loa	d condition shall be 10	00mA	
	ma	ximum for all contacts	5.	
	(EI	A-364-27, test conditi	on A)	
ENVIRONMENTAI				
Requirement		Standard		
See Product Oualification and Test	Pre	e Heat: 150°C Max, 90sec Min.		
Sequence Group 9	He	Ieat:200°C Min., 30sec Min.		
Sequence enoup y	Pea	Peak Temp.: 230°C Max, 10sec		
	Ma	ate module and subject	t to follow	
		and thouse and subject to follow		
See Product Qualification and Test	$-40 \pm 0/-3$ °C 30 minutes			
Sequence Group 3	ence Group 3 $+85 \pm 3/0$ °C 30 minutes		tas	
		+85+3/-0 C , 30 minutes (EIA-364-32 test condition I)		
	Mated Connector			
See Product Qualification and Test	10°			
Sequence Group 4	Red	40 C, 90~95% KH, Reafer to Mathed II		
Sequence Group 4	(EI	(EIA-364-31) Test condition Λ)		
	Sul	ubject mated connectors to		
See Product Oualification and Test	ten	temperature life at 85° for 96 hour		
Sequence Group 5	Measure Signal			
I when the second s	(EI	A-364-17. Test condit	ion A)	
	Sul	biect mated/unmated c	connectors to	
See Product Qualification and Test	5%	salt-solution concent	ration 35°C	
Sequence Group 6	for	24hours		
Sequence Group o	(EI	A-364-26 Test conditi	on B)	
	An	d then into solder bath		
Solder able area shall have minimum	Ter	mperature at 245 $\pm 5^{\circ}$	$^{\circ}$ for 4-5	
of 95% solder coverage	sec $101 \text{ for } 4-3$			
or serve soluer coverage.	(EI	A-364-52)		
shell be conduct by customer request				
	Dn electronic Co., LTD -WB1506H-HXXXX -WB1505H-XXXXX -WB1519H-XXXXX -WB1519H-XXXX -WB1519H-XXXX -WB1519H-XXXX -WB1519H-XXXX -WB1519H-XXXX -WB1519H-XXXX -WB1519H-XXXX -WB1519H-XXXX -WB1519H-XXXX -WB1519	See Product Qualification and Test Ma See Product Qualification and Test Se See Product Qualification and Test Ma See Product Qualification and Test Se See Product Qualification and Test Se See Product Qualification and Test Sult See Product Qualification and Test Sult	Control NO Image: Section of the section of th	



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6. PRODUCT QUALIFICATION A		EST	SEQ	UEN	ICE						٦
					Test (Group					
Test or Examination	1	2	3	4	5	6	7	8	9	10	
		·I	I		Γest Se	equen	ce	I			
Examination of Product	T		1.7	1.6	1.4				1_	1.3	
Low Level Contact Resistance	1.5	1.4	2.10	2.9	2.5				3	Τ	
Insulation Resistance	T		3.9	3.8						Τ	
Dielectric Withstanding Voltage	Τ		4.8	4.7						T	
Mating / Unmating Forces	2.4										
Durability	3										
Contact Retention Force(Board Side)	Τ	l				1		Ē		Τ	
Vibration	Τ	2								Τ	
Shock (Mechanical)	T	3								Τ	
Thermal Shock	T		5							Τ	
Humidity	Τ		6							Τ	
Temperature life				5							
Salt Spray					3						
Solder ability	Τ					1				Τ	
Terminal / Housing Retention								1			
Force(Cable Side)		ļ								+	-
Resistance to Soldering Heat		ļ							2		-
Temperature rise		ļ]								2	-
Sample Size	4	4	4	4	4	2	4	4	4	4	

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7.Insertion / Extraction Force

			Units: kgf
Number of simulta	At	At 30th	
Number of circuits	I.F.(MAX.)	W.F.(MIN.)	W.F.(MIN.)
2	2.00	0.20	0.20
3	2.00	0.20	0.20
4	2.00	0.20	0.20
5	3.00	0.30	0.30
6	3.00	0.30	0.30
7	3.00	0.30	0.30
8	4.00	0.40	0.40
9	4.00	0.40	0.40
10	4.00	0.40	0.40
11	5.00	0.50	0.50
12	5.00	0.50	0.50
13	5.00	0.50	0.50
14	6.00	0.60	0.60
15	6.00	0.60	0.60