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Document NameSPEC-WB125NH-XXXXX SPEC-WB125PH-HXXXX SPEC-WB125SH-XXXXX SPEC-WB125SH-XXXXX SPEC-WB125TH-HXXXXSPEC-WB125P-TX SPEC-WB125SAH-XXXXX SPEC-WB125SH-XXXXX SPEC-WB125TH-HXXXX		Date Revised	2021/10/15
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版本号	变更内容	日期	制订	核准
AO	新版发行	2019-08-28	Leo_he	Leo_he
A1	版本更新	2021-04-09	张丽丽	Leo_he
A3	版本更新,新增料号 WB125SAH-XXXXX	2021-09-24	于小芳	Leo_he
A4	统一更新编号	2021-10-15	于小芳	Leo_h

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	SPEC-WB125TH-		1	
五.REFLOW TEMP	TS MENTS AN PRO PERATURE PRO LIFICATION A	DECEDURES SUMMARY FILE ND TEST SEQUENCE		
Approva	l By	Check By	Originato	r By

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1. SCOPE

This specification covers performance, tests and quality requirements for WTB 1.25 Pitch Connector.

2. APPLICABLE DOCUMENTS

The following 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.

EIA-364: ELECTRONICS INDUSTRIES ASSOCIATION REQUIREMENTS

3. REQUIREMENT

3.1Design and Construction

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

3.1.2 All materials conform to R.O.H.S

3.2 Materials and Finish

	WB125NH-XXXX&WB125SH-XXXX&WB125SAH-XXXXX					
NO	DIMENSIONS	MATERIAL	PLATING&COLOR			
1	Housing	LCP	UL94V-0			
2	Contact	BRASS	(Gold-plated or tin-plated			
3	SHEEL	BRASS	Nickel plated			
		WB125PH-HXXXX& WB125P-TX				
NO	DIMENSIONS	MATERIAL	PLATING&COLOR			
1	Housing	PA66	UL94V-0			
3	Contact	copper alloy	Gold-plated or tin-plated			

4. RATINGS AND APPLICABLE WIRE

4.2.1) Current Voltage: DC 30 V

4.2.2) Current Rating: 4.5A/Per pin (AWG24#)

3.5A/Per pin (AWG26#)

3.0A/Per pin (AWG28#)

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4 2 3) Or	peration environment.		

4.2.3) Operation environment:

Temperature Rating: -40° C to $+85^{\circ}$ C

Relative humidity : 95% Max.

5. PERFORMANCE

5.1 APPEARANCE REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Examination of Product	Visual inspection EIA-364-18	Meets requirements of product drawing. No physical damage.

5.2 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
2	Contact Resistance (Low Level)	Terminal:measure by dry circuit, 20 mV max ,10mA. EIA-364-06	25 m Ω Max.
3	Dielectric Withstanding Resistance	AC 250 V for 1 minute. Test between adjacent contacts of unmated connectors. (EIA-364-20)	No creeping discharge flashes or flashes occur. Leakage < 2mA
4	Insulation Resistance	connectors: apply a voltage of500 VDC between adjacent' terminals and between terminals to ground. EIA-364-21	100MΩ MIN.

5.3 MECHANICAL REQUIREMENTS\

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6	Terminal Housing Retention Force (Board Side)	Apply axial pull out force at the speed rate of 25.4 ± 3 mm/minute. On the crimping assembled in the housing. (EIA-364-29)	0.3 kgf Min/PIN
7	Crimping Housing Retention Force (Cable Side)	Apply axial pull out force at the speed rate of 25.4 ± 3 mm/minute. On the crimping assembled in the housing. (EIA-364-29)	0.4kgf Min
8	Mating / Unmating Forces	Operation Speed:	See Item 7

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			25.4 ± 3 mm/minute Measure the force required to mate/Unmate connector. (EIA-364-13)			
9	Dura	ability	Mate The sample connectors a be mounted in the tester and f mated and unmated the numb 30 cycles specified at the ra 25±3 mm/min. (EIA-364-09)	ully er of	Appearance Contact R 25mΩ Max	
10	Vibr	ration	Mate connectors and subject to the following vibration conditions for period of 2 hours in each of 3 mutually perpendicular axes passing DC 1mA during the test.Amplitude:1.5mm P-P frequency:10~55~10 Hz in 1 minute (EIA-364-28 Condition I)		Appearance: No Damage No discontinuities 1 microsecond Or longer duration. Discontinuity :1 μ sec Max. Contact Resistance: 25mΩ Max.	
11	Shoo (Me	ck chanical)	Mate The sample connectors shall and subject to the following shock condition.3 times of shocks shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 1mA current during the test.(Total of 18 shocks) Peak value490m/s2 {50G} (EIA-364-27, test condition A)		Appearance: No Damage Discontinuity :1 μ sec Max. Contact Resistance:25mΩ Max.	
		Environme	ntal Performance			
12	Ten	nperature Rise	Mate connector: measure the Temperature Rise at rated cur until temperature stable. The a condition is still air at 25°C		Contact Resistance:	25mΩ Max.

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		01 20-100 120 11-11222	EIA 364-70 Method B			
13	Hea	t Resistance	Mate The sample connector expose to +85 \pm 2 °C fo hours. Upon completion of exposure period, the test sp shall be conditioned at amb condition for 1to2 hours, af the specified measurements performed.	r 96 the ecimens ient room ter which	Appearance 30°C max o allowed	e: No Damag change
14	Cole	d Resistance	Mate The sample connector expose to $-40\pm 2^{\circ}C$ for 96 Upon completion of the exp period, the test specimens s onditioned at ambient room condition for 1to2 hours, af the specified measurements performed.	hours. bosure hall be ter which	Appearance	e: No Damag
15	Hur	nidity	Mated Connector 40°C+/-2 90~95% RH,96hours (EIA-364-31, Condition A 1		Dielectric S Breakdown Contact	-
16	The	rmal Shock	Mate module and subject to follow condition for 5 cycles. 1 cycles: •-40 °C, 30 minutes •+85 °C, 30 minutes (EIA-364-32, test condition I)		Appearance Contact Re 25mΩ Max	
17	Salt	t Spray	Subject mated/unmated connectors to 5% salt-soluti concentration, 35°C+/-2°C (EIA-364-26)		Shall meet requiremen physical da	t, show no
18		der ability ard side)	And then into solder bath,		Solder able	area shall

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			Temperature at 235±5℃, for	4-5sec	have minim	num of 95%
			(EIA-364-52)		solder cove	rage
			(LIII - 50 - 52)		solder cove	lage.
			•Pre Heat: 80°C~130°C,40	~60sec.	Shall meet	vigual
	Res	istance to	•Heat: 230°C Min., 3-6sec.			
19		lering Heat	•Peak Temp.: 260°C Max,3		requiremen	
		ard side)	•crest: 2 times		physical da	mage.
	(20)		(EIA-364-56)			
			(L1A-304-30)			
	Slop	10 se	C Max. ec. Max. 40 sec. Min	200 °C	Min	
	3℃	/ Sec	► 230 °C Min			
		Pre-heat Hold time for is 60 ~ 120 sec.	or 150 ~ 180 °C			

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# 六. PRODUCT QUALIFICATION AND TEST SEQUENCE

	Test Group											
Test of Examination	А	В	С	D	Е	F	G	Н	I	J	K	L
	Test Sequence											
1、Visual and dimensional	1,6	1,5	1,7	1,5	1,5	1,5	1,5	1,3	1,5	1,5	1,3	1,3
2、Contact Resistance	2	2,4	2,6	2,4	2,4	2,4	2,4		2,4	2,4		
3、Insulation Resistance	3											
4、Dielectric Withstanding	4											
5 Terminal Housing Retention Force								2				
6、Mating / Unmating Forces			3,4									
7、Durability			5									
8、Vibration		3										
9、Shock Mechanical				3								
10、Temperature Rise					3							
11、Heat Resistance						3						
12、Cold Resistance							3					
13、Humidity	5											
14、Thermal Shock									3			
15、Salt Spray										3		
16、Solder ability											2	
17, Resistance to Soldering Heat												2
Sample Size	5	5	5	5	5	5	5	5	5	5	5	5

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七.MATING / UNMATING FORCE

Numb	At	At 30th		
erof				
circuit	I.F. (max.)kgf	R.F. (min.)kgf	R.F. (min.)kgf	
2				
3	1.5	0.2	0.15	
4				
5				
6	2.0	0.25	0.2	
7				
8				
9	3.0	0.3	0.25	
10				

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