HJBRIGHT®東莞市華晶電子有限公司

BRIGHT-E ELECTRONIC TECHNOLOGY LIMITED

PRODUCT SPECIFICATION PRODUCT SERIES NAME: H0801 SERIES PAGE: 1/5

1.SCOPE:

This specification covers the requirements for product performance of 0.80mm pitch wire to board connector series.

2.CONSTRUCTION · DIMENSIONS · MATERIAL & PLATING:

See the attached drawings

3.RATINGS & APPLICABLE WIRES:

Item	Standard		
Rated Voltage (max.)	30V AC, DC		Insulation O.D.
Rated Current (max.) and Applicable Wires	AWG #32	0.5A AC, DC	0.38mm (max.)
Ambient Temperature Range		-25°C ~ +85°C*	

^{*:} Including terminal temperature rise

4.PERFORMANCE:

4-1.ELECTRICAL PERFORMANCE

Test Description		Procedure	Requirement
4-1-1	Contact	Mate connectors, measure by dry circuit, 20mV max.,	$20 \mathrm{m}\Omega$ max.
	Resistance	10mA. (Based upon JIS C5402 5.4)	ZUIIISZ IIIax.
4-1-2	Insulation	Mate connectors, apply 500V DC between adjacent	
	Resistance	terminal or ground. (Based upon JIS C5402 5.2/	$100 \mathrm{M}\Omega$ min.
		MIL-STD-202 Method 302 Cond. B)	
4-1-3	Dielectric	Mate connectors, apply 200V AC (rms) for 1 minute	
Withstanding		between adjacent terminal or ground. (Based upon	No Breakdown
	Voltage	JIS C5402 5.1/MIL-STD-202 Method 301)	
4-1-4	Contact	I.D.T. the applicable wire on to the terminal, measure	
	Resistance	by dry circuit, 20mV max., 10mA.	$10 \mathrm{m}\Omega$ max.
	on I.D.T.		TUIIISZ IIIAX.
	Portion		

				APPROVED	CHECKED	WRITTEN
				BY	BY	BY
				D:11	Толго	Company
A 1	dd "24P"Insertion And Withdrawal Forc	2013.12.23	Samson	Billy	Tony	Samson
A0	NEW RELEASE	2012.08.03	Samson	2012.08.03	2012.08.03	2012.08.03
REV.	DESCRIPTION	DATE	NAME	DOCUMENT	Γ NO: PS-080	0-002

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4-2.MECHANICAL PERFORMANCE

Test Description		Procedure			Requirement
4-2-1		Insert and withdraw connectors at the speed rate of 25 ± 3 mm/minute.			Refer to paragraph 5
4-2-2	I.D.T. Pull Out	Fix the I.D.T. terminal, apply axial pull out force on the wire at the speed	Axial direction	AWG #32	0.6kgf min.
	Force	rate of 25 ± 3mm/minute. Vertical (Based upon JIS C5402 direction AWG #3 6.8)		AWG #32	0.3kgf min.
4-2-3	Pin Retention Force	Apply axial push force at the speed rate of 25 ± 3 mm/minute.			0.2kgf min.
4-2-4	Durability	When mated up to 50 cycles repeatedly Contact by the rate of 10 cycles per minute. Resistance			40mΩ max.
		Amplitude: 1.5mm P-P Sweep time: 10-55-10 Hz in	n 1 minute	Appearance	No Damage
4-2-5	Vibration	Duration: 2 hours in each X.Y.Z. axes (Based upon MIL-STD-202 Method 201A) Contact Resistance Discontinuity			$40 \mathrm{m}\Omega$ max.
				lμsec. max.	
		490m/s ² {50G}, 3 strokes in X.Y.Z. axes.	n each	Appearance	No Damage
4-2-6	Physical Shock	`		Contact Resistance	40m $Ω$ max.
		Discontinuity		lμsec. max.	

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4-3.ENVIRONMENTAL PERFORMANCE AND OTHERS

Test	Description	Procedure		Requirement	
4-3-1	Temperature	Carrying rated current load. Temperature		30°C max.	
	Rise	(Based upon UL 498)	Rise	30 C max.	
4-3-2	Heat	85 ± 2 °C, 96 hours	Appearance	No Damage	
	Resistance	(Based upon JIS C0021/MIL-STD-202	Contact	$40 \mathrm{m}\Omega$ max.	
		Method 108A Cond. A)	Resistance	40IIIS2 IIIax.	
4-3-3	Cold	-25 ± 3 °C, 96 hours	Appearance	No Damage	
	Resistance	(Based upon JIS C0020)	Contact	$40 \mathrm{m}\Omega$ max.	
			Resistance	TOMES MAX.	
		Temperature: $40 \pm 2^{\circ}$ C	Appearance	No Damage	
		Relative Humidity: 90 ~ 95%	Contact	$40 \mathrm{m}\Omega$ max.	
		Duration: 96 hours	Resistance	TOTAL TRUX.	
4-3-4	Humidity	(Based upon JIS C0022/MIL-STD-202	Insulation	$10 \mathrm{M}\Omega$ min.	
		Method 103B Cond. B)	Resistance	1010122 111111.	
			Dielectric		
			Withstanding	Must meet 4-1-3	
			Voltage		
4-3-5	Temperature	5 cycles of: a) - 55°C 30 minutes	Appearance	No Damage	
	Cycling	b) +85°C 30 minutes	Contact	400	
		(Based upon JIS C0025)	Resistance	$40 \mathrm{m}\Omega$ max.	
		24 ± 4 hours exposure to a salt spray	Annogrango	No Damage	
4-3-6	Salt Spray	from the $5 \pm 1\%$ solution at 35 ± 2 °C.	Appearance	No Damage	
		(Based upon JIS C0023/MIL-STD-202	Contact	$40 \mathrm{m}\Omega$ max.	
		Method 101D Cond. C)	Resistance	40IIIS2 IIIax.	
		24 hours exposure to 50 ± 5 ppm.	Appearance	No Damage	
4-3-7	SO ₂ Gas	SO_2 gas at 40 ± 2 °C.	Contact	$40 \mathrm{m}\Omega$ max.	
			Resistance	40IIIS2 IIIax.	
		40 minutes exposure to NH ₃ gas	Appearance	No Damage	
4-3-8	NH ₃ Gas	evaporating from 28% Ammonia	Contact	$40 \mathrm{m}\Omega$ max.	
		solution.	Resistance	Homes max.	
		Soldering Time: 5 ± 0.5 sec.	Solder	95% of immersed	
4-3-9	Solderability	Solder Temperature: 245 ± 5 °C	Wetting	area must show no	
				voids, pin holes	
		When reflowing			
4-3-10	Resistance	Refer to paragraph 6			
	to Soldering		Annagranas	No Domozo	
	Heat	Solder iron method	Appearance	No Damage	
		Soldering Time: 3 ± 0.5 sec.			
		Solder Temperature: 370°C ~ 400°C			
		*			

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5.INSERTION/WITHDRAWAL FORCE:

5-1 TIN PLATED TYPE:						
No. of	Insertion	Withdrawal	No. of	Insertion	Withdrawal	
circuits	(kgf max.)	(kgf min.)	circuits	(kgf max.)	(kgf min.)	
2	1.20	0.30	12	2.20	0.80	
3	1.30	0.35	14	2.40	0.90	
4	1.40	0.40	15	2.50	0.95	
5	1.50	0.45	16	2.60	1.00	
6	1.60	0.50	17	2.70	1.05	
7	1.70	0.55	18	2.80	1.10	
8	1.80	0.60	20	3.00	1.20	
9	1.90	0.65	22	3.20	1.30	
10	2.00	0.70	24	3.40	1.40	

5-2 GOLD PLATED TYPE:						
No. of	Insertion	Withdrawal	No. of	Insertion	Withdrawal	
circuits	(kgf max.)	(kgf min.)	circuits	(kgf max.)	(kgf min.)	
2	0.70	0.10	12	1.70	0.30	
3	0.80	0.12	14	1.90	0.34	
4	0.90	0.14	15	2.00	0.36	
5	1.00	0.16	16	2.10	0.38	
6	1.10	0.18	17	2.20	0.40	
7	1.20	0.20	18	2.30	0.42	
8	1.30	0.22	20	2.50	0.46	
9	1.40	0.24	22	2.70	0.50	
10	1.50	0.26	24	2.90	0.54	

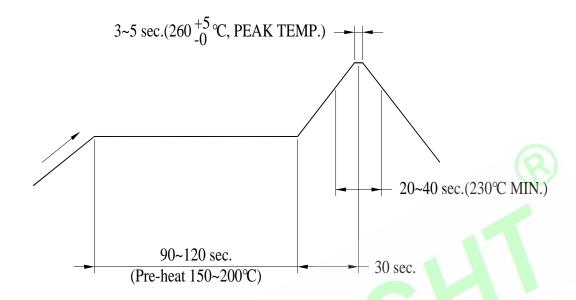
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6.INFRARED REFLOW CONDITION:



TEMPERATURE CONDITION GRAPH (TEMPERATURE ON BOARD PATTERN SIDE)

NOTE: Please check the mount condition(reflow soldering condition) by your own devices beforehand, because the condition changes by the soldering devices, p.c.boards, and so on. No moisture treatment before reflow process.