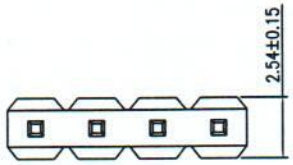
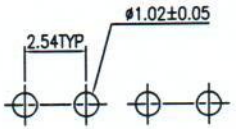
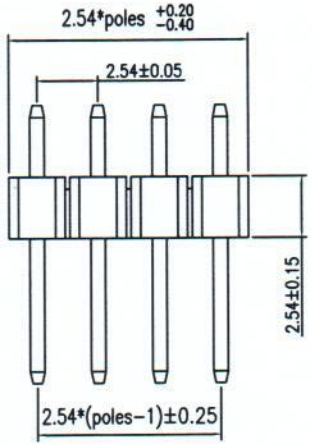
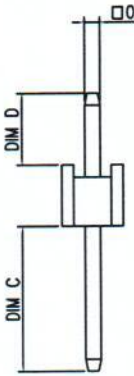
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U		增加DIP规格	zhangqiang	2020.10.26
V		增加DIP规格	CaiQiang	2021.04.16





Recommand PCB Layout





出图 2021.04.20 工程师

SPECIFICATIONS

. Voltage Rating : 250V AC/DC
. Current Rating : 3A AC/DC
. Withstanding Voltage : 1000V AC/minute
. Insulation Resistance : 1000MΩmin
. Temperature Range : −25°C to +85°C
. Contact Resistance : 20mΩmax

HOUSING

. Part No. : JS-1109-XXX(XX/XX)-XXXX-XX

- ⚠ Poles : 01~40
- Blank : Gold Plated
- G5 : Gold Plated(Au>10u")
- Blank : P.B.T
- U1 : PA6T+30%GF
- Blank&BK : Black
- Blank: Normal
- NH: Halogen Free

. Material :Contact: Brass, Gold Plated Plated
. Halogen free product identification LOGO on the packing

PART NUMBER	DIM C	DIM D
⚠ JS-1109-XX(5.84/5.08)	5.84	5.08
⚠ JS-1109-XX(2.4/3.0)	2.40	3.00
⚠ JS-1109-XX(6.75/2.9)	6.75	2.90
JS-1109-XX(15/3)	15.00	3.00
JS-1109-XX(13.7/2.6)	13.70	2.60
⚠ JS-1109-XX(3.0/3.0)	3.0	3.0
⚠ JS-1109-XX(4.5/3.0)	4.5	3.0
⚠ JS-1109-XX(10.0/3.0)	10.0	3.0
⚠ JS-1109-XX(3.0/3.5)	3.0	3.5
⚠ JS-1109-XX(12.5/10.0)	12.5	10.0
⚠ JS-1109-XX(18.3/2.8)	18.3	2.8
⚠ JS-1109-XX(2.8/3.16)	2.8	3.16
⚠ JS-1109-XX(5.85/5.05)	5.85	5.05
⚠ JS-1109-XX(8.60/3.00)	8.60	3.00
⚠ JS-1109-XX(6.00/3.50)	6.00	3.50

PART NUMBER	DIM C	DIM D
JS-1109-XX	6.00	3.00
JS-1109-XX(5.0/3.0)	5.00	3.00
JS-1109-XX(14.0/3.0)	14.00	3.00
JS-1109-XX(6.3/3.0)	6.30	3.00
JS-1109-XX(3.3/3.3)	3.30	3.30
⚠ JS-1109-XX(4.0/3.0)	4.00	3.00
⚠ JS-1109-XX(6.0/2.7)	6.00	2.70
⚠ JS-1109-XX(5.0/4.0)	5.00	4.00
⚠ JS-1109-XX(5.0/5.0)	$5.00^{+0}_{-0.2}$	$5.00^{+0}_{-0.2}$
⚠ JS-1109-XX(3.5/3.5)	3.50	3.50
⚠ JS-1109-XX(7.5/3.6)	7.50	3.60
⚠ JS-1109-XX(7.5/3.0)	7.50	3.00

符合环境管理物质

X.± 0.50	X°± 3.0°	UNITS mm	NAME(INTENDED USE) CUSTOMER
.X± 0.40	.X°± 2.0°	MAT'L	PART NO.(INTENDED USE) JS-1109-XX(XX/XX)-XXXX
.XX± 0.25	.XX°± 1.0°	FINISH	APPD:
.XXX± 0.12	.XXX°± 0.5°	Q'TY	CHKD:

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DR: ASIMO 09-07/07

CHYAO SHIUNN ELECTRONIC (SHANGHAI) CO.,LTD.

TITLE: 2.54mm Crimp Style Connector

DWG NO.: 020-0021-1109-XX

SCALE	SHEET	REV.
2:1	1/1	/

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TAMSHUI, TAIPEI, TAIWAN, R.O.C.
TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677
http://www.chyaoshiunn.com.tw E-mail:cs@chyaoshiunn.com.tw

Type Document	Product Specification	Revised / Edition	M
Date Issued	2004/02/17	Data Revised	2019/05/23
Subject: JS-1105 /B/B1 JS-1106/B JS-1107 JS-1108 /T JS-1108S/L/H-T JS-1109/B JS-1110 Pitch 2.54mm Single-Row/Dual-Row DIP Series WTB Connector			Issued By: Engineering Dept.

This specification is referred to Pitch 2.54mm Single-Row/Dual-Row DIP Series WTB Connector.

-INDEX-

1.0 Product Name/Part Number & Drawing Number.

2.0 Construction/Dimensions/Material & Surface Finish.

3.0 Characteristic.

4.0 Specimen.

5.0 Applicable Standards

6.0 Mechanical Performance.

7.0 Electrical Performance.

8.0 Environmental Performance.

9.0 Insertion Force & Retention Force Requirement.

10.0 Remark

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Issued By: Engineering Dept.

1.0 Product Name/Part Number & Drawing Number:

Product Name			Part Number	Drawing Number
Terminal			JS-1108/1108S/L/H-T	JS-1108/1108S/L/H-T
Housing	*Single-Row*		JS-1108	JS-1108-XX
	Dual-Row		JS-1105/1105B/1105B1	JS-1105/1105B/1105B1-XX*2
Headers	*Single Row*	Straight	JS-1109/*B*	JS-1109/*B*-XX
		Right Angle	JS-1110	JS-1110-XX
	Dual Row	Straight	JS-1106/*B*	JS-1106/*B* -XXx2
		Right Angle	JS-1107	JS-1107-XXx2

2.0 Construction/Dimensions/Material & Surface Finish:

Part Name		Material	Surface Finish
Terminal		Brass	Tin-Plated/Gold Plated
Housing		PBT	UL 94V-0
Headers	Post	Brass	Gold-Plated
	Base	PBT / Nylon 6T	UL 94V-0

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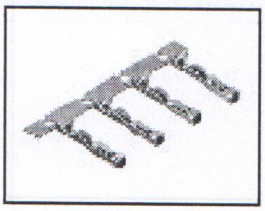
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3.0 Characteristic:

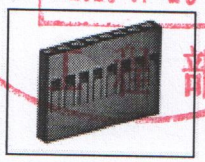
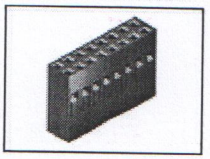
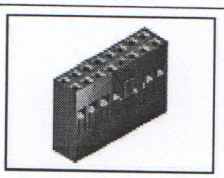
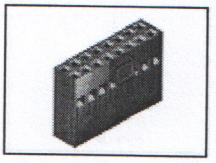
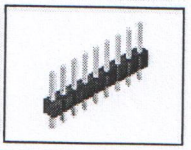
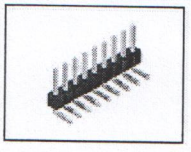
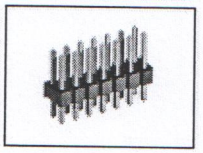
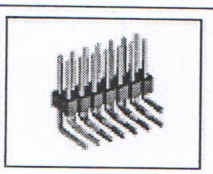
Item		Standard	
3.1	Rated Current	3A AC/DC (With AWG #22 is applied)	
3.2	Rated Voltage	250V AC/DC	
3.3	Ambient Temperature Range	Operating Temp.:(Insulator Nylon 6T : -45~+105) ; (Insulator PBT: -25~+85) Including 30℃ Terminal Temperature Rise at rated Current , Non-operating Temp. :(Insulator Nylon 6T : -45~+105) ; 90% R.H. Max (Insulator PBT: -25~+85; 90% R.H. Max)	
3.4	Applicable Wire	3.4.1	Conductor Construction Size: AWG #22~#28
		3.4.2	Wire Insulation O.D.: 1.2mm ~ 1.6mm
3.5	Applicable Printed Circuit Board (PCB)		Thickness: 0.8 mm ~ 1.6 mm
			Hole Size: 1.00 ± 0.05 m
			Hole Pitch: 2.54 ± 0.05 mm

4.0 Specimen:

Part Name	Part Number	Picture or Photograph
Contact	JS-1108/1108S/L/H-T	

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7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD.,
TAMSHUI, TAIPEI, TAIWAN, R.O.C.
TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677
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Housing	Single Row		JS-1108-XX		
	Dual Row		JS-1105-XXx2		
			JS-1105B-XXx2		
			JS-1105B1-XXx2		
Headers	Single Row	Straight	JS-1109/B-XX		
		Right Angle	JS-1110-XX		
	Dual Row	Straight	JS-1106/B -XXx2		
		Right Angle	JS-1107XXx2		

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ISO 9002

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5.0 Applicable Standards:

MIL-STD-202 Methods by test of connectors for electronic equipment.

EIA 364 Testing method for electrical connectors.

6.0 Mechanical Performance:

Item		Test Condition		Requirement
6.1	Insertion & Retention Force	Insert and withdraw with connectors at the speed rate of 25mm/minute. (EIA/ECA 364-13D)		Per Contact Insertion Force : 0.8kg/f Max Retention Force : 0.03kg/f Min
6.2	Crimp Tensile Strength	Pull with contact terminal at the speed rate of 25mm/minute. (CSA C22.2 No.182.3)	AWG#22 size wire	5.0kgf/Min.
			AWG#24 size wire	3.0kgf/Min.
			AWG#26 size wire	2.0kgf/Min.
			AWG#28 size wire	1.0kgf/Min.
6.3	Contact Retention Force	Withdraw with contact terminal at the speed rate of 25mm/minute. (EIA/ECA 364-29C)		1.5kgf/Min.
6.4	Post Retention Force	Use a tension gauge to press the post at the speed rate of 25mm/minute. (EIA/ECA 364-29C)		0.8kgf/Min.

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7.0 Electrical Performance:

Item		Test Condition	Requirement
7.1	Contact Resistance	A maximum voltage of 20mV and a maximum current of 10mA are applied to the Mate connectors. (EIA/ECA 364-23C)	Contact Resistance: 20 milliohms Max.
7.2	Current Continuity	Each circuit of the connector shall be connected in series. Continuity meter shall inspect current discontinuity.	No discontinuity current is longer than 1 microsecond.
7.3	Insulation Resistance	Apply 500V D/C to any two adjacent contacts to measure the insulation resistance. (EIA 364-21C)	Insulation Resistance: Initial 1000 megohms Min.
7.4	Withstanding Voltage	Apply 1000V A/C (rms) for 1 minute to the adjacent terminal and ground of the Mate connectors. (EIA 364-20C)	No breakdown or flashover.

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8.0 Environmental Performance:

Item		Test Condition	Requirement
8.1	Durability	Mate Connectors up 30 Cycles at a Maximun rate of 10 cycles Per minute prior to environmental test (EIA/ECA 364-09C)	(After the test) Contact Resistance: 40 milliohms Max.
8.2	Vibration	Frequency: 10~55~10 Hz/minute. Amplitude: 1.5 mm P-P. Direction: 1. Axis of up and down. 2. Axis of right the left. 3. Axis of front and back. Period: 2 hours for each direction. (EIA/ECA 364-28E)	(After the test) Contact Resistance: 30 milliohms Max.
			No discontinuity current is longer than 1 microsecond.
8.3	Humidity Steady State	Temperature: 40±2℃. Humidity: 90%~95% (RH). Period: 96 hours continuously. (EIA 364-31B)	(After the test) Contact Resistance: 30 milliohms Max.
			(After the test) Insulation Resistance: 500 Megohms Min.
			(After the test) Withstanding Voltage : No breakdown or flashover
8.4	Heat Aging	Temperature: 85±3℃. Period: 96 hours continuously. (EIA 364-17B)	Contact Resistance: 30 milliohms Max. after the test, And no damage.

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JS-1108S/L/H-T JS-1109/B JS-1110
Pitch 2.54mm Single-Row/Dual-Row DIP Series WTB Connector

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Item		Test Condition	Requirement
8.5	Thermal Shock	One Cycle Consists Of: - 55(+ 0 - 3)℃ for 30 minutes. + 85(+ 3 - 0)℃ for 30 minutes. Time of Cycles: 25 Cycles.	Same as paragraph 8.3
8.6	Salt Spray	Temperature: 35±2℃. Density: 5 % in weight. Period: Terminal or contact (Stamping after tin plated for 8 hours) ; Terminal or contact (Stamping before tin plated for 24 hours).	(After the test) Contact Resistance: 30 milliohms Max
8.7	Solder Ability	Solder Temperature: 245 ± 5℃. Immersion Period: 3±0.5 Seconds Method : 1.5mm From Terminal Tip. (EIA 364-52B)	Solder entirely (Tin Plated : 95% / Gold Plated : 75%) of immersed area must show no voids or pinholes.
8.8	Resistance To Soldering Heat	Resistance to Wave soldering heat when using PBT : Solder Temperature: 245 ± 5℃. Immersion Period: 5±0.5 Seconds	No deformation or damage.
		Resistance to Wave soldering heat when using PA6T : Solder Temperature : 260 ± 5℃. Immersion Period: 5±0.5 Seconds	

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ISO 9002

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		by soldering iron : 350 ± 5℃ 5±0.5 Seconds. Method: 1.5mm from terminal tip and

2020-07-20

10.0 Remark: Any change or revision for the product specification will not be announced in advance. Please contact our sales representative for the latest information.