



CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	D-SUB连接器
MODEL NO.	型 号:	XB-series
DRAWING NO.	图 形 号:	D-SUB Connectors

若此产品规格符合贵司要求，敬请确认此规格书内所有项目  
并签名和盖章后回传给我司，以作我司产品制作之  
依据和存档之用，多谢合作！

APPROVE 接受			NOT APPROVE 不接受		
SIGNATURE 签署      STAMP 盖章      DATE 日期					

PREPARED BY.制表人	CHECKED BY.校对	APPROVED BY.审核	APPROVAL BY. 批准
<div>研发部</div> <div>戴海明</div> <div>2022. 06. 08</div>	<div>品质部</div> <div>黄自清</div> <div>2022. 06. 08</div>	<div>工程部</div> <div>庞军</div> <div>2022. 06. 08</div>	<div>总经办</div> <div>吴量</div> <div>2022. 06. 08</div>

Quality core! Afterburner for Made in China!



ENGINEERING

DEPT.

PRODUCT SPECIFICATION

For High Density Solder Dip D-Sub  
Connector of System CD01

SPEC.NO.: SPCD001E

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1. SCOPE:

This specification contains the test requirement of subject connectors when tested under the condition and below standards base on Xi Bang connector test procedure

2. APPLICABLE STANDARDS:

MIL - STD - 202

Methods for test of connectors for electronic equipment

MIL - STD - 1344

Test methods for electrical connectors

SS-00254

Test methods for electronic components ,LEAD-FREE soldering Part design standards

3. APPLICABLE SERIES NO.: **CD01 Series**

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. SOLDER CUP ACCEPTS CABLE: AWG #20 Max.

REVIEWED : XIE.BING.XIN APPROVED : HE.LONG.FEI VERIFIED : PANG.DONG



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7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage		1A 250V AC (r.m.s.)
7.2	Contact resistance	Dry circuit of DC 20 mV max. , 100 mA max.	Less than 20 mΩ
7.3	Dielectric strength	When applied AC 1000 V 1 minute between adjacent terminal	No change
7.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 5000 MΩ

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Contact retaining force in insulator	Retention speed $25 \pm 3$ mm per minute from housing	More than 4.0 Kg <sub>f</sub>
8.2	Single contact insertion force	Measure force to insertion using $\varnothing 0.78$ mm test pin at speed $25 \pm 3$ mm per minute	240 gram max.
8.3	Single contact withdrawal force	Measure force to withdrawal using $\varnothing 0.74$ mm test pin at speed $25 \pm 3$ mm per minute	15 gram min.
8.4	Durability	Connector shall be subjected to 100 cycles of insertion and withdrawal	Contact resistance: Less than twice of initial

9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Temperature rise	Then carried the rated current	30°C max.
9.2	Vibration	1.5 mm 10-55-10 HZ / minute each 2 hours for X , Y and Z directions	Appearance: No damage Discontinuity: 1 micro second max.
9.3	Solder ability	<b>Tin-Lead Process:</b> Soldering time: $5 \pm 0.5$ second Soldering pot: $230 \pm 5^{\circ}\text{C}$ <b>Lead-Free Process:</b> Soldering time: $3 \pm 0.5$ second Soldering pot: $245 \pm 5^{\circ}\text{C}$	Minimum: 90% of immersed area

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	ITEM	TEST CONDITION	REQUIREMENT
9.4	Hand Soldering	Use a soldering iron that has a sufficient head capacity and high stability of temperature. The tip of the iron should be shaped so as not to touch the part body directly. Temperature : $380 \pm 10^{\circ}\text{C}$ 3Sec.	No damage
9.5	Heat aging	$105 \pm 2^{\circ}\text{C}$ , 96 hours	No damage
9.6	Humidity	$40 \pm 2^{\circ}\text{C}$ , 90-95% RH , 96 hours measurement must be taken within 30 min. after tested	Appearance: No damage Contact resistance: Less than twice of initial Dielectric strength: To pass para 7-3
9.7	Temperature cycling	One cycle consists of : (1) $-55^{+0}_{-3}^{\circ}\text{C}$ , 30 min. (2)Room temp. 10-15 min. (3) $85^{+3}_{-0}^{\circ}\text{C}$ , 30 min. (4)Room temp. 10-15 min.	Appearance: No damage Contact resistance: Less than twice of initial
9.8	Salt spray	Temperature: $35 \pm 3^{\circ}\text{C}$ Solution: $5 \pm 1\%$ Spray time: $48 \pm 4$ hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: Less than twice of initial

10. AMBIENT TEMPERATURE RANGE:  $-40$  to  $+105^{\circ}\text{C}$

11. MATING FORCE AND UNMATING FORCE:

Unit: Kgf

No. of Circuits	Mating Force ( Initial max. )	Unmating Force ( Initial max. )
15	5.1	3.8
26	9.2	6.9
44	12.6	8.6
62	16.4	10.8