Customer 客戶名稱：Qisda

No 序列號:

Attention 聯繫人：Sunny

Approval Date 承認日期: 2011.01. 22

Your Part No 客戶料號： 2B.12218.B81

Sample No 樣品號.：

SPECIFICATION

規 格 說 明 書

Model 型號： USB

Spec No 規格：YH-A003-USB-B1D122F-4B4N-W

Customer Approval Status 客戶承認狀況	HUATAC File Publish Sign 華傑文件發行蓋章處
Dsg'd 設計:	Edition 版本： A
Chk'd 審核:	
App'd 批准:	
File Publish Sign 文件發行蓋章處	File clerk 文管:

HUA JIE (TAIWAN) CORP.

臺灣華傑股份有限公司

6F,NO.25,JI-LIN ROAD.CHUNG LI.

TAIWAN (CHUNGLI INDUSTRILA ZONE)

臺灣中壢工業開發區吉林路 25 號 6 樓

E-mail:huajie@mail.hua-jie.com

SUZHOU HUAJIE ELECTRONICS CO.LTD

蘇州華傑電子有限公司

NO.7.Zhangzhuang Road Huangqiao

Town Suzhou.China

中國江蘇省蘇州市黃橋鎮張莊路 7 號

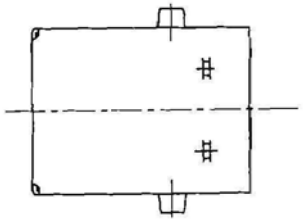
Dsg'd 設計 技术部 11.01.22 夏晴

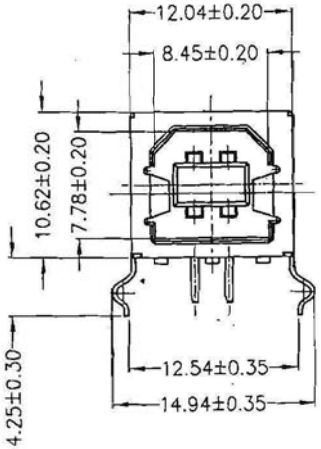
App'd 批准 技术部 11.01.22 陈志方

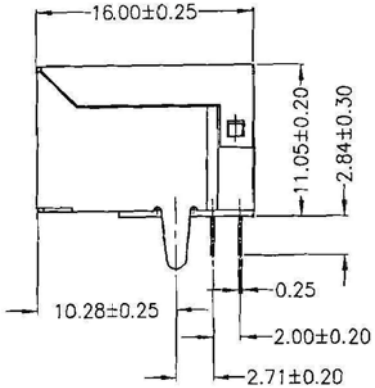
Sales 業務員

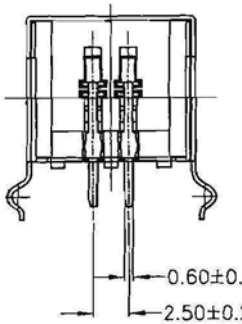
工程出图

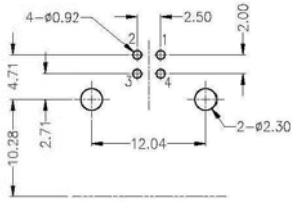
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A/0	The last word	10.01.15		



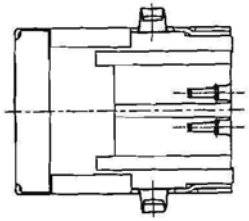








RECOMMENDED P.C.B HOLE LAYOUT
TOP VIEW(TOLERANCE:±0.10)



Specification
1.Current Rating:1.5AMP at 250V AC
Voltage Rating:30V
2.Insulation Resistance:1000MΩ Min
3.Contact Resistance:30mΩ Max
4.Dielectric Withstanding Voltage:500V AC
5.Temperature Range:-20°C to +60°C
6.Mechanical Characteristics:
Insertion Force:35 Newtons maximum
Extraction Force:10 Newtons minimum

受控文件
ACCEPT CONTROL FILE

P/N NOTE:
USB-B1D122F-XX4X-W
- Shell plate spec: T=Tin plated, N=Nickel plated
- Housing colour: B=Black, N=Nature, W=White, L=Blue
- Contact plate spec: 0=FU", 1=3U",2=6U", 3=15U",4=30U"

工程部

NO.	VARIETY	MATERIAL	QT,Y	REMARK
4	Shell	C2680H	1	T=0.30 Plating nickel/Tin
3	Housing	P.B.T	1	UL94V-0 Nature/Black/White/L=Blue
2	Contact(Long)	C2680H	2	T=0.25 Plating Gold
1	Contact(brief)	C2680H	2	T=0.25 Plating Gold

Suzhou Huajie Electronics Co.,Ltd.

X. ±0.38	X.° ±4°	UNIT:	mm	DR:	JACK	TITLE:	USB B TYPE(FEMALE) DIP 90° L=16.00		
.X ±0.25	.X° ±2°	3RD:		DE:	JACK				
.XX±0.20	.XX°	SCALE:	1:1	CHKD:		SHEET:	1/1	P/N:	
.XXX±0.10	.XXX°	REV:	A/0	APPD:		D/N:	1114-0122	M/N:	
CUSTOMER DRAWING									

PRODUCT SPECIFICATION		Rev.No.	A/0
Subject:	USB2.0 A&B TYPE RECEPTACLE	page	1 of 4

1. material

1.1: Housing: Minimum UL 94-V0 rated, thirty percent (30%) glass-filled polybutylene terephthalate (PBT) or better.
Thermal capability: SMT TYPE >260 oC; DIP TYPE >205 oC; solder TYPE > 350 oC of 5s

1.2: Shell: Substrate Material: 0.30 + 0.05 mm phosphor bronze, nickel silver, or other copper based high strength materials.
Plating: Outside: Optional. Minimum 2.00 micrometers (80 microinches) nickel. In addition,manufacturer may use a copper underplate beneath the nickel.

1.3: Terminal: Substrate Material: 0.25 + 0.05 mm minimum half-hard phosphor bronze or other high strength copper based material;
Plating: 1.3.1.Underplate: Minimum 1.25 micrometers (50 microinches) nickel. Copper over base material is optional.
1.3.2. Mating Area: Minimum 0.05 micrometers (2 microinches) gold.
1.3.3. Solder Tails: Minimum 3.8 micrometers (150 microinches) bright tin over the underplate.

2. Electrical Characteristics

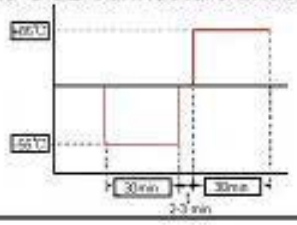
2.1: All electrical characteristics must be measured at or referenced to +20 oC (68 oF).
2.2: Voltage Rating: 30 V rms maximum.
2.3: Contact Current Rating: 1.5 A at 250 V AC minimum. when measured at an ambient temperature of 25 ℃. With power applied to the contacts, the . T must not exceed +30 ℃ at any point in the USB connector under test.

3. Temperature Range:

A. Operating Temperature Range: -55oC to +85oC
B. Storage Temperature Range: -20 oC to +60 oC
C. Nominal Temperature Rating: +20 oC

4. TEST Requirements and Procedures Summary

Item	Test Description	Test requirement	Test procedure
4.1	Insulation Resistance	1,000 MΩ, minimum.	EIA 364-21 Insulation Resistance The object of this test procedure is to detail a standard method to assess the insulation resistance of USB connectors. This test procedure is used to determine the resistance offered by the insulation materials and the various seals of a connector to a DC potential tending to produce a leakage of current through or on the surface of these members.
4.2	Dielectric Withstanding Voltage	The dielectric must Withstand500V AC for one minute at sea level.	EIA 364-20 The object of this test procedure is to detail a test method to prove that a USB connector can operate safely at its rated voltage and withstand momentary over-potentials due to switching,surges, and/or other similar phenomena.
4.3	Low Level Contact Resistance	30mΩ, maximum When measured at 20 mV maximum open circuit at 100 mA. Mated test contacts must be in a connector housing.	EIA 364-23 The object of this test is to detail a standard method to measure the electrical resistance across a pair of mated contacts such that the insulating films, if present, will not be broken or asperity melting will not occur.

4.4	Contact Current Rating	1.5 A at 250 V AC minimum when measured at an ambient temperature of 25 ℃. With power applied to the contacts, the . T must not exceed +30 ℃ at any point in the USB connector under test.	EIA 364-70 — Method B The object of this test procedure is to detail a standard method to assess the current carrying capacity of mated USB connector contacts.
4.5	Contact Capacitance	2 pF maximum unmated per contact.	EIA 364-30 The object of this test is to detail a standard method to determine the capacitance between conductive elements of a USB connector.
4.6	Insertion Force	35 Newtons maximum at amaximum rate of 12.5 mm(0.492") per minute.	EIA 364-13 The object of this test is to detail a standard method for determining the mechanical forces required for inserting a USB connector.
4.7	Extraction Force	10 Newtons minimum at a maximum rate of 12.5 mm(0.492") per minute.	EIA 364-13 The object of this test is to detail a standard method for determining the mechanical forces required for extracting a USB connector.
4.8	Durability	1,500 insertion/extraction cycles at a maximum rate of 200 cycles per hour. (Insertion force : 35N(3.57kgf) maximum Withdraw force : 10N minimum. 35N maximum.)	EIA 364-09 The object of this test procedure is to detail a uniform test method for determining the effects caused by subjecting a USB connector to the conditioning action of insertion and extraction, simulating the expected life of the connectors. Durability cycling with a gauge is intended only to produce mechanical stress. Durability performed with mating components is intended to produce both mechanical and wear stress.
4.9	Random Vibration	No discontinuities of 1 ∫s or longer duration when mated USB connectors are subjected to 5.35 Gs RMS. 15 minutes in each of three mutually perpendicular planes.	EIA 364-28 Test Condition V Test Letter A This test procedure is applicable to USB connectors that may, in service, be subjected to conditions involving vibration. Whether a USB connector has to function during vibration or merely to survive conditions of vibration should be clearly stated by the detailed product specification. In either case, the relevant specification should always prescribe the acceptable performance tolerances.
4.10	Thermal Shock	10 cycles –55 °C and +85 °C. The USB connectors under test 	EIA 364-32 Test Condition I The object of this test is to determine the resistance of a USB connector to exposure at extremes of high and low temperatures and to the shock of alternate exposures to these extremes, simulating the worst case conditions for storage, transportation, and application.

PRODUCT SPECIFICATION		Rev.No.	A/0
Subject:	USB 2.0 A&B TYPE RECEPTACLE	page	3 of 4

4.11	Humidity Life	168 hours minimum (seven complete cycles).The USB connectors under test must be tested in accordance with EIA 364-31 . Temperature: [+40°c] Relative Humidity: 80% to 95% Duration : 168 hours	EIA 364-31 Test Condition A Method III The object of this test procedure is to detail a standard test method for the evaluation of the properties of materials used in USB connectors as they are influenced by the effects of high humidity and heat.
4.12	Solderability	USB contact soleer tails must pass 95% coverage after one hour steam aging as specified in Category 2 . Soldering time:3 +/-0.5 Sec, Solder temperature:235+/-5℃ Max,1 mm from Terminal tip and fitting nail tip	EIA 364-52 The object of this test procedure is To detail a uniform test method for determining USB connector solderability. The test procedure contained herein utilizes the solder dip technique. It is not intended to test or evaluate solder cup, solder eyelet, other hand-soldered type, or SMT type terminations.
4.13	Flammability	The manufacturer will require its therm oplastic resin vendor to supply a detail C of C with each resin shipment . The C of C shall clearly the resin's UL listing nember ,lot number ,date code ,etc .	UL 94 V-0 This procedure is to ensure thermoplastic resin commpliance to UL flammability standards.
4.14	Thermal Aging	ANSI/EIA-364-17,Condition 3, Method A Mate connectors and expose to +85° ± 2°c,250hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after shich the specified measurements	Appearance:No physical damage Contact Resistance: Should meet spec. specified
4.15	Resistance to Soldering heat	By wave soldering:260+/-5C Soldering time: 10±1 Sec, By soldering iron: Solder Temperature: 390± 10 ℃.	Appearance: no damage Contact Resistance: Should meet spec. specified

5.Protocol Overhead	(Based on 480Mb/s and 8 bit interpacket gap, 88 bit min bus turnaround, 32 bit sync, 8 bit EOP: (3x4 SYNC bytes, 3 PID bytes, 2 EP/ADDR+CRC bytes, 2 CRC16 and a 3x(1+11) byte interpacket delay(EOP, etc.))				
Data	**Payload**	**Max**	**Bandwidth**	**(bytes/second)**	**Microframe**
1	1064000	1%	133	52	133
2	2096000	1%	131	33	262
4	4064000	1%	127	7	508
8	7616000	1%	119	3	952
16	13440000	1%	105	45	1680
32	22016000	1%	86	18	2752
64	32256000	2%	63	3	4032
128	40960000	2%	40	180	5120
256	49152000	4%	24	36	6144
512	53248000	8%	13	129	6656
1024	49152000	14%	6	1026	6144
2048	49152000	28%	3	1191	6144
3072	49152000	42%	2	1246	6144
MAX	60000000				7500

产品质量证明书

CERTIFICATE OF QUALITY

北京金鹰铜业有限责任公司
BeiJing Jin Ying Copper Products Co.,Ltd
Xiaojie Liyuan Tongzou Beijing China
TEL:086-01060526450-207 FAX:01060527336

客户名称 Customer	合同号 Contract No	重量(Kg) Weight(Kg)	签发日期 Date of Issue
东莞京温贸易公司	2006-004-06	2456.6	2006-04-12

牌号 Brand	标准 Standard No	规格 (mm) Dimension	批号 Lot No	状态 Temper	表面质量 Surface Quality
C2680	GB/T5231-2001	0.3X305	B-2408	H	OK

化学成份 Chemioal compositon

		Cu	Pb	Fe	Bi	P	Zn
标准	Min	63.5	/	/	/	0.1	/
Spec	Max	66.5	0.02	0.1	0.002	0.02	
实测	Acteal	64.5	0.01	0.03	/	0.011	余量

尺寸公差(mm) Size Tolerance

名称 name	厚度Thickness	宽度 Width	长度Length
标准 Spec	0.3±0.01	305±0.5	/
Min	0.29	304.5	/
Max	0.31	305.5	/

机械性能 Mechanism propertics

项目 Item		抗拉强度(kgf/mm2) Tensile Strength	延伸率 (%) Elongation	硬度 (HV) Hardness
标准	MIN	/	13	140
Spec	MAX	/	18	160
实测 Actual		468	16	148

质检部长 chief in quality:

检验员 inspecter:

北京金鹰铜业有限责任公司 产品质量专用章

2006 May 29 13:11 HP LASERJET FAX

产品质量证明书

CERTIFICATE OF QUALITY

北京金鹰铜业有限责任公司
BeiJing Jin Ying Copper Products Co.,Ltd
Xiaojie Liyuan Tongzou Beijing China
TEL:086-01060526450-207 FAX:01060527336

客户名称 Customer	合同号 Contract No	重量(Kg) Weight(Kg)	签发日期 Date of Issue
东莞京温贸易公司	2006-04-19	3568	2006-04-26

牌号 Brand	标准 Standard No	规格 (mm) Dimension	批号 Lot No	状态 Temper	表面质量 Surface Quality
C2680	GB/T5231-2001	0.25X305	12-181	H	OK

化学成份 Chemioal compositon

		Cu	Pb	Fe	Bi	P	Zn
标准	Min	63.5	/	/	/	0.1	/
Spec	Max	66.5	0.02	0.1	0.002	0.02	
实测	Acteal	64.5	0.01	0.03	/	0.011	余量

尺寸公差(mm) Size Tolerance

名称 name	厚度Thickness	宽度 Width	长度Length
标准 Spec	0.25+0.01	305+0.5	/
Min	0.24	304.5	/
Max	0.26	305.5	/

机械性能 Mechanism propertics

项目 Item		抗拉强度(kgf/mm2) Tensile Strength	延伸率 (%) Elongation	硬度 (HV) Hardness		
标准	MIN	/	14	140		
Spec	MAX	/	/	160		
实测 Actual		478	18	148		

质检部长 chief in quality:

检验员 inspecter:

北京金鹰铜业有限责任公司 产品质量专用章

2006 May 29 13:11 HP LASERJET FAX

东莞博辉塑胶制品有限公司

材 质 证 明

PBT+30%GF V0　BK

PBT 树脂	51.5%
玻璃纤维	30%
阻燃剂	18%
黑　种	0.5%

注：含量完全符合国际无卤标准

东莞市博辉塑胶制品有限公司

物　性　表

PBT特性:本产品具有优良之耐化学性,耐候性,电器特性;
结晶快,易成型;耐热性较好等优点.

品名规格: PBT+30%GFVO 无卤 BK

性能 PROPERTY	测试方法 METHOD	单位 UNITS	标准 STANDARDS	参数 INDEX
玻璃含纤 PERCENT OF FIBRE-GALSS	燃烧法	%	30±2	30
比重 SPECIFIC GRAVITY	ASTMD-792	-	1.6±0.03	1.6
模收缩率 MOLD SHRINKAGE	ASTMD-955	%	0.28±0.1	0.28
热变形温度 HEAT DISTORTIONTEMPERATURE	ASTMD-648	℃	225±5	225
拉伸强度 TENSILE YIELD STRENGTH	ASTMD-638	kg/mm^2	9.5±0.5	9.4
含水率 WATER ABSORPTION	ASTMD	%	0.2±0.1	0.3
伸长率 ELONGATION AT BREAK	ASTMD-638	%	4.0±2	3.0
弯曲强度 FLEXURAL STRENGTH	ASTMD-790	kg/cm^2	13±1	13.8
冲击强度 IZOD IMPACT STREHGTH	ASTMD-256	kgcm/cm	5.0±1	5.3
燃烧性(1/8寸) FLAMMABILITY	U.L-94	-	V_0	V_0
洛氏硬度 ROCK WLL HARDNESS	ASTMD-785	R Scale	120±10	120
介电常数 DLELCTRIC CONSTANT	ASTMD-150	-	3.0±0.5	3.4
介电强度 DLELECTRIC STRENGTH	ASTMD-149	Kv/mm	20±5	23

本表数据仅供参考使用

2008.02.19

手動測量檔案	36:Ni/Cu,	0.5Um			常润
鍍層/底材	Ni/Cu				单号:1438
准直器： 0.45	X線輸出		11		
校正時間：60秒	測量時間：	20秒			計算方法：數位
能量範圍	Ni=80-100				Cu=120-150
統計量	數據數=		4		
	Ni【um】				Cu【um】
合計	9.5188				13.5326
最大	2.5269				3.5263
最小	2.2510				3.2639
平均	2.3797				3.3832
R	0.2759				0.2624
標準偏差	0.1031				0.0987
3 σ	2.0265-2.5264				3.0265-3.5261
4.5 σ	2.2635-2.6235				3.1645-3.6235
NO.1	Ni=	2.5269		Cu=	3.3265
NO.2	Ni=	2.3250		Cu=	3.5263
NO.3	Ni=	2.2510		Cu=	3.4159
NO.4	Ni=	2.4159		Cu=	3.2639

2008.02.19

手動測量檔案	36:Ni/Cu,	0.5Um			常润
鍍層/底材	Ni/Cu				单号:3663
准直器： 0.45	X線輸出		11		
校正時間：60秒	測量時間：	20秒			計算方法：數位
能量範圍	Ni=80-100				Cu=120-150
統計量	數據數=		4		
	Ni【um】				Cu【um】
合計	9.5963				12.8901
最大	2.5296				3.3265
最小	2.3250				3.1426
平均	2.3991				3.2225
R	0.2046				0.1839
標準偏差	0.0837				0.0745
3 σ	2.0265-2.5264				3.0265-3.5261
4.5 σ	2.2635-2.6235				3.1645-3.6235
NO.1	Ni=	2.5296		Cu=	3.1620
NO.2	Ni=	2.3265		Cu=	3.3265
NO.3	Ni=	2.4152		Cu=	3.2590
NO.4	Ni=	2.3250		Cu=	3.1426

Customer : 正 德

No.	uinch Ni	uinch Cu	Ni 95.50 tolerance 110.63 125.76
1	108.94	165.71	
2	104.98	161.52	
3	108.17	123.98	
4	112.99	125.68	
5	118.07	121.02	
MEAN	110.63	139.58	
S.DEV	5.044	22.052	

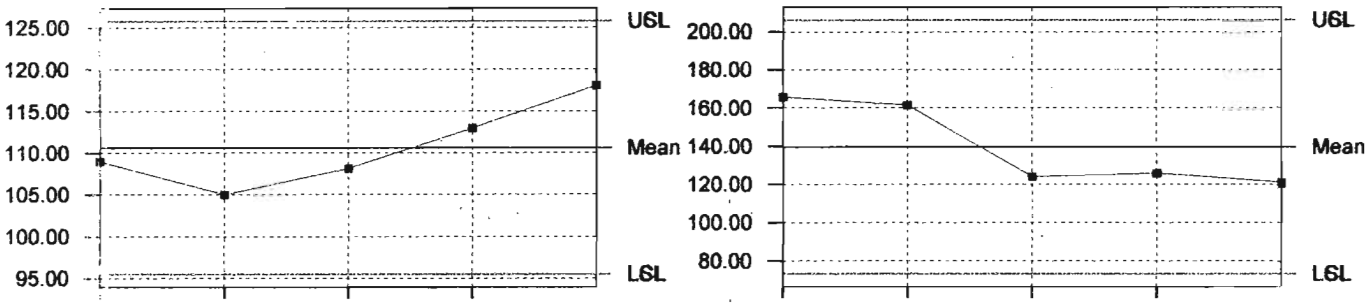
FUNC: MEASURE

TIME: 00:08

COL : 0.20 mm

----- Ni -----
----- Cu -----
----- Fe -----

SEC: 5



Ni/Cu/Fe STATISTICAL RESULT

	Ni uinch	Cu uinch
Data No:	5	5
Maximum:	118.07	165.71
Minimum:	104.98	121.02
Range :	13.09	44.69
Mean :	110.63	139.58
Std.dev:	5.044	22.052
CV%:	4.559	15.799

恒鑫源五金制品厂 QA PASS

恒 鑫 源 五 金 制 品 厂

Underwriters Laboratories Inc.®

ECBT2.E253995

Connectors for Use in Data, Signal, Control and Power Applications

See General Information for Connectors for Use in Data, Signal, Control and Power Applications

WENZHOU YIHUA COMMUNICATION CONNECTOR CO LTD E253995
HOU XI INDUSTRY PARK
WENG YANG TOWN
YUEQING, ZHEJIANG 325606 CHINA

Low voltage connectors, Cat. Nos. USB-A1DXF, USB-A1DXM, USB-A1MXF, USB-A1SXF, USB-A1SXM, USB-A2DXF, USB-A2SXF, USB-B1DXF, USB-B1SXM, IEE-P1SXF, IEE-P1SXM, MIN-A1MXF, MIN-B1MXF, IEE-A1MXF, USB-A1MXM, MIN-A1SXM, MIN-B1SXM, IEE-P1DXF, IEE-H1MXF, IEE-A1DXF, IEE-A1SXF and IEE-A1SXM.

Marking: Company name and catalog designation on device or carton.

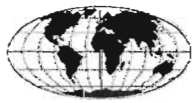
Last Updated on 2005-05-04

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Welcome, WENZHOU YIHUA COMMUNICATED CONNECTOR CO., LTD.

As an owner of a USB Vendor ID, you will be able to have your products tested for USB compliance as well as see if your product to use the USB-IF logo. To find out more on how to get your products tested, please visit the Compliance Program area.
Please review instructions on various web tools available for you to manage your products.

USB-IF Logo Trademark License Agreement status: Not On File

Our records show that your company has not yet submitted a completed USB-IF Logo Trademark License Agreement. A signed U Logo Trademark License Agreement is required for a product to be Hi-Speed USB compliant and to use the USB-IF logo. Downlo USB-IF Logo Trademark License Agreement.

List of all iList Products

USB B Plug - Solder / YH-USB 04 (TID 60000766)
USB Dual Stacked A Type Receptacle Assy / YH-A001 USB-A1 (TID 60000701)
USB Type B, R/A PCB Mount Receptacle / YH-A003 USB-B1 (TID 60000702)
USB-A-Plug - Solder / YH-USB 06 (TID 60000767)
Manage your products
View product test results
Please review instructions (pdf, 69k) on various web tools available for you to manage your products.