

承認書

APPROVED DATA

客 戶
CUSTOMERS

RAPID ELECTRONICS LTD

品 名

DESCRIPTION : **AC SOCKET**

力 瑋 料 號

INALWAYS P/N : **0720-FSB (of 0720 Series)**

客 戶 料 號

CUSTOMER P/N : **23-0045**

日 期

DATE **2013 年 6 月 7 日**

承認印 APPROVED BY



TITLE : AC INLET 2P SOCKET

Part No. : 0720 Series

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DOCUMENT NO.	REV	DESCRIPTION	APPROVED BY	CHECKED BY	WRITTEN BY	DATE (yyyy/mm/dd)	SHEET NO
E720-0001	A	NEW RELEASE				2011/08/30	1 OF 6



1. Scope 應用範圍

This specification applies to AC Inlet 2P Socket for case mount of the following rated for Cold condition, for class II equipment only, in accordance of IEC 60320-1, EN 60320-1, UL 498 and CSA C22.2. The pins temperature should not exceed to 70°C.

本規範適用於冷環境二級設備之2P插座，依照 IEC 60320-1、EN 60320-1、UL 498 及 CSA C22.2等規範，插座內插梢之溫度不可超過 70 °C。

2. Electrical Ratings 額定電流/電壓

2.5 A 250 VAC

3. Materials and Construction 材質與結構

3.1 Materials 材質

Frame : Thermoplastic, PBT, UL 94V-0 架構：熱塑性塑膠、聚對苯二甲酸丁二酯

Pin & Terminals : Copper alloy, Tin plated 插梢 & 端子：銅合金，鍍錫

3.2 Construction 結構

See the figure. 見附圖

3.3 Operating Temperature 工作溫度

- 25 °C to + 70 °C

3.4 Performance and Procedures 性能及程序

Socket shall be designed to meet the electrical, mechanical and environmental performance requirements specified in 4.

插座必須設計滿足電氣、機械及環境測試性能需求，詳細規格說明於 4. 節。

TITLE		AC INLET 2P SOCKET		
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4. Test Requirement and Procedures 測試條件及程序

Electrical Requirements 電氣特性要求		
Item	Requirement	Test Methods
Insulation Resistance 絕緣阻抗	100 M Ω min. 100 M Ω 以上。	500 VDC applied for one minute between adjacent terminals and between adjacent terminals and housing. 測試電壓500 VDC、測試時間1分鐘，在端子與端子間及端子與本體間。 IEC 60320-1, Section 15
Electric Strength 耐電壓強度	No Breakdown. 無任何損壞。	A) 2,000 VAC being applied between all terminals for one minute. (Max. Leakage current: 0.5 mA) 在所有端子與端子之間施加 2,000 VAC 測試 1分鐘（最大漏電流0.5 mA）。 B) 4,000 VAC being applied between all terminals and frame for one minute. (Max. Leakage current: 0.5 mA) 在所有端子與塑膠本體之間施加 4,000 VAC 測試 1分鐘（最大漏電流0.5 mA）。 IEC 60320-1, Section 15
Contact Resistance 接觸阻抗	30 m Ω max. 30 m Ω 以內。	Mate connectors, apply maximum voltage of 5 V and a current of 100 mA. 將連接器匹配後，以測試電壓最大5 V，電流最大100 mA。 IEC 60127-6

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4. Test Requirement and Procedures 測試條件及程序

Mechanical Requirements 機械特性要求		
Item	Requirement	Test Methods
Pull Force of Terminal 端子推出力	No movement exceeding 2.5 mm. 移動 2.5 mm 以下。	The specimen shall be heated to temperature of 70 °C for 1 hour. Then a static load of 60 N (6.12 kgf) is applied to the pins for one minute. 加熱樣品至 70 °C 維持 1 小時，然後施加 60 N (6.12 kgf) 於插梢持續 1 分鐘。 IEC 60320-1, Section 13
Ball-Pressure Test 球壓測試	Measure the diameter of the impression shall not exceed 2 mm. 壓痕直徑最大 2 mm。	The specimen shall be stored at a temperature of 125 ± 2 °C, a steel ball of 5 mm diameter is pressed against the surface of the specimen with a force of 20 N (2.04 kgf) for 1 hour. 產品放在 125 ± 2 °C 的加熱室內，用一直徑 5 mm 的鐵球、作用力 20 N (2.04 kgf)，對產品表面施壓 1 小時。 IEC 60320-1, Section 24
Push-out Test 面板推出測試 (For Panel Only)	Specimen cannot be push out from the panel. 樣品不會被推出面板。	The specimen shall be mounted on a panel, then apply a static load of 90N from the back of the specimen for one minute. 樣品固定在面板上，然後施加 90N 於樣品背部持續 1 分鐘。
Tightening Torque of Screw Test 螺絲孔扭力測試 (For Screw-On Only)	No damage. 無任何損傷。	Torque energy of 8 kgf-cm shall be applied to the insulation material. 螺絲固定於塑膠孔後，施加 8 kgf-cm 扭力於螺絲上。

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4. Test Requirement and Procedures 測試條件及程序

Environment Requirements 環境特性要求		
Item	Requirement	Test Methods
Moisture Resistance 防潮	No damage. 無任何損傷。	Expose the specimens to 20 ~ 30 °C, 91 ~ 95 % R.H. for 48 hours. 樣品放在溫度20 ~ 30 °C、相對溼度91~95%之測試槽內48小時。 IEC 60320-1, Section14
Resistance to Heat 耐熱性	No damage. 無任何損傷。	The specimen shall be stored at a temperature of 100 ± 2 °C for 1 hour. 樣品放入100 ± 2 °C的測試槽內1小時。 IEC 60320-1, Section 24
Solderability 焊錫性	Solder coverage more than 90 %. 端子需披覆錫 90 % 以上。	A) Wave Soldering 波焊： Soldering temperature 250 ± 5 °C, duration 3~5 sec. 錫溫 250 ± 5 °C，沾錫3~5秒。 B) Manual Soldering 烙鐵焊接： Soldering temperature 380 ± 5 °C, duration 2~3 sec. 錫溫 380 ± 5 °C，焊接2~3秒。 IEC 60068-2
Resistance to Solder Heat 抗焊錫熱	No damage. (exemption of fixing pillar) 無任何損傷(固定腳柱除外)。	A) Wave Soldering 波焊： Soldering temperature 260 ± 5 °C, duration 5 ± 1 sec. 錫溫 260 ± 5 °C，沾錫 5 ± 1秒。 B) Manual Soldering 烙鐵焊接： Soldering temperature 400 ± 5 °C, duration 5 ± 1 sec. 烙鐵溫度 400 ± 5 °C，焊接 5 ± 1 秒。 IEC 60068-2

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5. Test Sequences 測試順序

The test sequences are defined as following. 測試順序如下：

Test Description Sequence	Test Group			Supplemental Test
	1	2	3	
Insulation Resistance 絕緣阻抗		2		
Electric Strength 耐電壓強度		3		
Contact Resistance 接觸阻抗		4		
Pull Force of Terminal 端子推出力	1			
Ball-Pressure Test 球壓測試			2	
Push-out Test 面板推出測試	2			
Tightening Torque of Screw Test 螺絲孔扭力測試				2
Moisture Resistance 防潮		1		
Resistance to Heat 耐熱性			1	
Solderability 焊錫性				1
Resistance to Solder Heat 抗焊錫熱	3			
Sample Size for Each Group	3	3	3	3

6. Certified Safety 認證安規

UL / CSA / ENEC(16) / CCC

7. Manufacturing Location / Factory 生產地 / 工廠

Inalways Electronic (DONGGUAN) Co. Ltd.

SiHuan Rd., XianXi, ChangAn, DongGuan, GuangDong Province, China

Tel: 86-769-8530-7001

Fax: 86-769-8530-7010

華瑋電子(東莞)有限公司

中國廣東省東莞市長安鎮咸西村四環路

Tel: 86-769-8530-7001

Fax: 86-769-8530-7010

TITLE		AC INLET 2P SOCKET		
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SPECIFICATION

A: MATERIAL:

1. HOUSING: PBT+30% GLASS FIBER, UL94V-0
2. TERMINAL: COPPER ALLOY, TIN PLATED

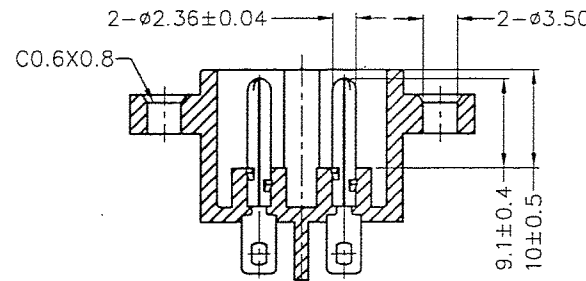
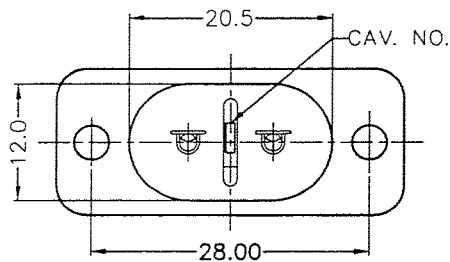
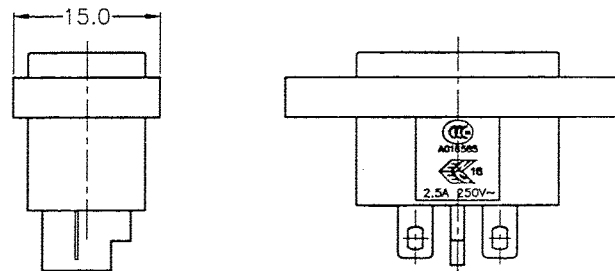
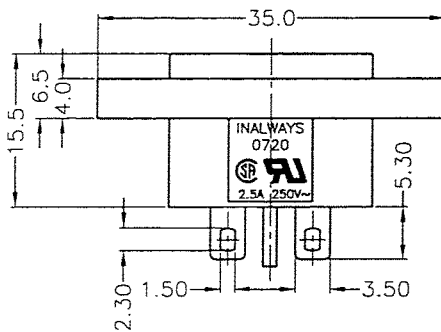
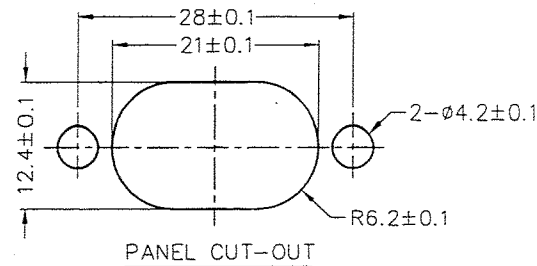
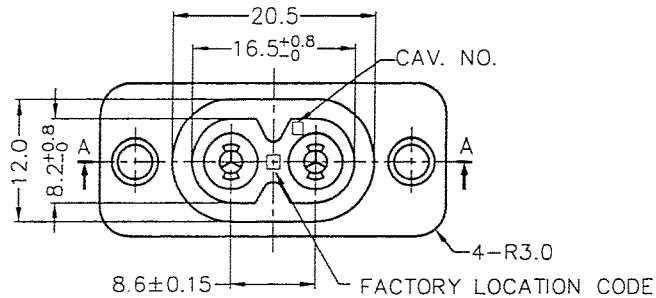
B: CHARACTERISTICS:

1. RATING: 2.5A 250V~
2. INSULATION RESISTANCE: 100MΩ MIN, AT 500V DC
3. ELECTRIC STRENGTH: 2000V AC FOR ONE MINUTE

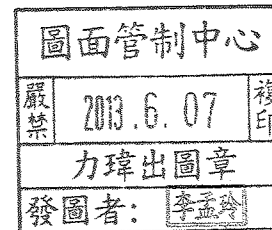
C: APPROVALS:

UL, CSA, ENEC & CCC

客戶用圖



SECTION A-A



APPROVED BY[CUSD20091111]	
Customer	UNIHAN
Approval NO.	10720007
Customer Part NO.	1411-00NM000
Approval Date	2009.12.28

REV	DATE	DOCUMENT	DESCRIPTION
E			
D			
C			
B	2010.09.16	DGR10012	CHANGE SAFETY MARK
A	2010.01.15	RELEASE	NEW REVISION

 力瑋實業股份有限公司 INALWAYS CORPORATION		PART NO.: 0720-FSB		NAME: AC INLET 2P SOCKET	
TOLERANCE UNLESS OTHERWISE MARKED DIMENSION: ANGULAR: .000 : ±0.1 .00 : ±0.2 .0 : ±0.3 ±3°		MATERIAL: SEE ABOVE		SPEC.: IEC 60320-1, C8	
		APPROVED: 林	CHECKED: 黃	DESIGNED: 黃	NOTE:
A 4		UNIT mm	SCALE 1.5:1	SHEET 1 of 1	2010-09-16 家慶 毅華 靜 S720-0017



AXUT2.E94191
Attachment Plugs, Fuseless - Component

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Attachment Plugs, Fuseless - Component

~~See General Information for Attachment Plugs, Fuseless - Component~~

INALWAYS CORP
7TH FL 105 WUGONG RD
WUGU DISTRICT
NEW TAIPEI, 248 TAIWAN

E94191

Appliance inlets, Cat. Nos. 0729-PP, 0729-SP.

Model 0707-2-CQ1; 0732 Series, 0732 followed by C, F or P, followed by N, W or P, followed by one alphanumeric digit.

Cat. No. 0711-5 followed by P1.2, P1.5, P2.0 or P3.0; Cat. No. 0711-6 followed by PN, PQ, PS or PW.

Cat. Nos. 0707-1-C7, 0711-2-PW, 0707-1, 0707-1G.

Model 0721-4 Series followed by PH, PS, PN, PP, PP1, PS1, PS1 (A.C.1), SP, SP (A.C.1).

Power inlets, Cat. Nos. 0711, 0711-1, 0711-3, 0714-P.

Cat. Nos. 0720 Series, 0721 Series, 0714-1Series , 0714-1 followed by C or F, followed by 7 or 9, followed by one alphanumeric digit.

Models 0722, 0722-S Series, 0722-SCS, 0722-SCQ, 0722-SCW, 0722-SPS, 0722-SPQ, 0722-SPW, 0722-1 Series, 0722-1 followed by P, followed by Q or W, followed by one alphanumeric digit; 0722-2 Series, 0722-2 followed by P, followed by Q or W, followed by one alphanumeric digit; 0722-3 Series, 0722-3 followed by P, followed by Q or W, followed by one alphanumeric digit.

Cat. No. 0711-2.

Cat. No. 0714.

Cat. No. 0711-4.

Models 0724, 0724-S Series, 0724-SCQS, 0724-SPQS, 0724-SCS, 0724-SCQ, 0724-SPS, 0724-SPQ, 0724-F Series, 0724-P Series, 0724-PH.

Models 0724-P Series followed by two or three numerical alphabet digits and followed by (AC1).

Appliance inlet, Cat. No. 0711-5, followed by P1.0, P1.2, P1.5, P2.0 or P3.0; Cat. No. 0711-6, followed by PQ, PW, PS or PN.

Appliance inlet, Models 0721-PPA, 0721-PP1, 0721-PS1, 0721-PP2, 0721-PS2, 0721-SS, 0721-SP, 0721-PP3, 0721-PS3, 0721-PP4, 0721-1-PP, 0721-1-PS, 0721-2-PP, 0721-3-PP1, 0721-3-PS1, 0721-3-PS, 0721-3-PP, 0721-5-PP, 0721-5-PP1, 0721-6-PP, 0721-6-SP, 0721-7-PP, 0721-7-SP, 0720-1-PS, 0720-1-PP, 0720-1-PP1 and 0720-1-PS1, 0721-S Series, 0721-SCQ, 0721-SPQ, 0721-5-SP2, 0721-5-SP3, 0721-5-PP(AC1), 0721-5-PP1(AC1), 0721-2-PP1, 0721-2-SP1, 0721-6-PS, 0721-6-SS, 0721-7-PP (A.C.1) and 0721-7-SP (A.C.1).

Cat. No. 0720-2.

Appliance inlets, Cat. Nos. 0721-6-SP1, 0721-6-SP1 (A.C.1), 0721-6-PP1, 0721-6-PP1 (A.C.1).

Appliance inlets, Models 0711-1RS Series, 0711-1RS, followed by P, followed by W, Q, S or LS, followed by G or Blank, followed by two alphanumeric digits; Models 0711-1RS Series, 0711-1RS, followed by P, followed by Q or S, followed by D or S, followed by two alphanumeric digits; Models 0711-S Series, 0711-S, followed by C or P, followed by Q or S, followed by two alphanumeric digits.

Appliance inlets, Models 0721-4-PSB, 0721-4-SSB, Modes 0724-PS Series, followed by 9, followed by two alphanumerical digits or blank.

Note: A.C.1 - Alternate Construction No. 1

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

Last Updated on 2012-07-03

Questions?

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Terms of Use

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CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1194404

Master Contract: 159542 (LR 63196)

Project: 1453862

Date Issued: August 11, 2003

Issued to: Inalways Corporation
No 63, WuGung 5th Rd.,
Wugu Industrial District,
Taipei Hsien, Taiwan

The products listed below are eligible to bear the CSA Mark shown



Authorized by:

Fred Mark
Fred Mark
Director, Far East Operation

PRODUCTS

CLASS 6233 01 - RECEPTACLES - Attachment Plug Type and Plugs

Special-Use male inlets, two-poles, rated 2.5 A, 250 V ac.

PART A - Cat No 0720-FS

PART B - Cat No 0720-FP

PART C - Cat No 0721-PS

PART D - Cat No 0721-PP

PART E - Cat No 0720-X-XXX

PART F - Cat No 0721-X-XXX

- Note:
1. Certified only for use as components of other certified assemblies where the suitability in end-use equipment is to be determined.
 2. Suffix number X-XXX is added to denote minor design variations.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 182.3-M1987 - Special Use Attachment Plugs, Receptacles and Connectors

CERTIFICATE ENEC/FI 2010029



Our Ref. 258286-1

Product Appliance inlet
Rating and principal characteristics 2,5 A 250 V~, IP20
Trade mark (if any) INALWAYS
Type 0720-.- series
 0721-.- series

Name and address of the licensee Inalways Corporation
 P.O Box 17-196 Sinjhuang
 24899 TAIPEI COUNTY, TAIWAN

Address of the manufacturer Inalways Corporation
 P.O Box 17-196 Sinjhuang
 24899 TAIPEI COUNTY, TAIWAN

Is in conformity with EN 60320-1:2001 + A1:2007

As shown in the Test Report(s) No(s) 258286-1

It is authorized to use of the marks ENEC 16 and FI

Validity This certificate is valid until 05 May 2015 unless the standard in question has been amended or superseded with significant changes in requirements, in which case, SGS Fimko has the right to shorten the validity of the certificate based on the legislation of the European Union. This certificate includes the right to use the ENEC 16 and FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is brought onto market and that the conditions for ENEC and FI certification are met.

Directive information The product(s) fulfils the essential safety requirements for CE conformity marking according to the Low Voltage Directive (2006/95/EC) at the date of issue of this certificate.

With the following limitations -

Date of issue 05 May 2010

Signature **SGS Fimko Ltd**

Sixten Lökfors
 Project Manager



This certificate has 2 pages



This certificate is issued by the company under its General Conditions for Certification Services accessible at www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Fimko Ltd.

Särkiniementie 3 P.O.Box 30 FI-00211 Helsinki, Finland
 t. +358 9 696 361 f. +358 9 692 5474 www.fi.sgs.com

Business ID 0978538-5

Member of the SGS Group (SGS SA)

Page No.: 2 of Certificate No.: FI/ENEC 2010029

Additional information

0720-- series

- Standard sheet C8
- see details in test report page 18

0721-- series

- Standard sheet C8 and
- Special polarized design of standard sheet C8
- see details in test report page 19

Manufacturing site(s)

Inalways Electronic (Dongguan) Co. Ltd.
Si Huan Road., Xianxi, Changan
Dongguan City, Guangdong Province
523846, CHINA



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2003010204074282

NAME AND ADDRESS OF THE APPLICANT

INALWAYS ELECTRONIC (DONGGUAN) CO., LTD.
Si Huan Rd., Xianxi, Changan, Dongguan

NAME AND ADDRESS OF THE MANUFACTURER

INALWAYS ELECTRONIC (DONGGUAN) CO., LTD.
Si Huan Rd., Xianxi, Changan, Dongguan

NAME AND ADDRESS OF THE FACTORY

INALWAYS ELECTRONIC (DONGGUAN) CO., LTD.
Si Huan Road, Xianxi Village, Chang'an Town, Dongguan

NAME, MODEL AND SPECIFICATION

2.5A 250V Appliance Inlet for Class II Equipment for Cold Conditions
0720、0720-1、0721、0721-1、0721-2、0721-3、0721-4、0721-6、0721-7、0721-
SCQ、0721-SPQ 2.5A 250V~

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB17465.1-2009

This is to certify that the above mentioned products have met the requirements of implementation rules for compulsory certification(REF NO. CNCA-01C-006:2011).

Date of issue: Aug.26,2011 Date of expiry: Aug.26,2016

Validity of this certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

Date of original certification: Aug.04,2003

This certificate can be verified through CNCA's website: www.cnca.gov.cn



President:

Wang Kejiao

CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China

<http://www.cqc.com.cn>



Q 0454919

華瑋電子(東莞)有限公司 INALWAYS ELECTRONIC(DONGGUAN) CO.,LTD 出貨檢驗規範										核准		審核		制作		
客戶名稱		RAPID		產品名稱		AC SOCKET		文件編號		郝哲菊		吳宗亮		宇路		
客戶料號		/		華瑋料號		0720-FSB		文件版本								
抽樣標準		MIL-STD-105E單次正常II級抽樣		允收水準		CR = 0 MA = 0.1 MI = 0.25		客制編號								
檢驗項目		檢驗內容						缺點類別			檢驗方式 / 允收標準		判定			
								CR (嚴重)	MA (主要)	MI (次要)						
1. 紙箱外觀、料號、數量與箱麥確認		☐ 紙箱表面不可有壓垮、變形或破損、水漬、碰撞損壞							V		目視					
		☐ 出貨數量與出貨單數量須相符，箱麥標示需正確							V		目視 / 點數					
		☐ 出貨標籤之客戶料號、料號與送貨單資料及實物相符							V		目視					
2. 產品外觀檢測		☐ 主面外觀：射料不足、塑膠破損、髒污異色、毛邊、結合線、削傷、撞傷							V		目視					
		☐ 次表面外觀：射料不足、塑膠破損、髒污異色、毛邊、結合線、削傷、撞傷									V		目視			
		☐ 端子錯置 ☐ 端子壓垮 ☐ 端子漏植 ☐ 端子未定位 ☐ 端子晃動 ☐ 端子漏加壓 ☐ 卡鉤拉歪 ☐ 卡鉤斷裂						V			目視					
		☐ 線材鉤焊端需完全包覆不可裸露或破損，松脫						V			目視					
		☐ 線材絕緣皮層不可破損，刮傷						V			目視					
		☐ 熱縮導管需熱縮到位							V		目視					
3. 尺寸檢驗(mm)		檢驗編號	尺寸規格	Cav# ____	Cav# ____	Cav# ____	Cav# ____	Cav# ____	Cav# ____	Cav# ____	Cav# ____	檢驗方式 / 允收標準		判定		
		1	16.5±0.8/-0										工程圖面			
		2	8.6±0.15										工程圖面			
		3	8.2±0.8/-0										工程圖面			
		4	2.36±0.04										工程圖面			
		5	9.1±0.4										工程圖面			
		6	10±0.5										工程圖面			
		7	3.50±0.2										工程圖面			
		8	20.5±0.3										工程圖面			
		9	12.0±0.3										工程圖面			
		10	28.0±0.3										工程圖面			
													工程圖面			
													工程圖面			
													工程圖面			
													工程圖面			
													工程圖面			
4. 耐電壓&絕緣阻抗測試(依承認書測試條件)												高壓測試儀				
5. 扭力測試												☐ 扭力規格: 8kgf-cm ☐ 特殊規格: _____ kgf-cm ☐ N/A				
6. 拔出力測試												☐ SHEET F(10A): 全PIN最大50N，單PIN最小1.5N ☐ SHEET J(16A): 全PIN最大60N，單PIN最小2N ☐ N/A				
7. 膜厚測試		☐ 測試 ☐ N/A											☐ 電鍍規格: 打鍍底2.5um以上，鍍錫3.0um以上 ☐ 電鍍規格: 打銅底2.5um以上，鍍鎳3.0um以上 ☐ 電鍍規格: 打鍍底2.5um以上，鍍霧錫3.0um以上			
8. 刻字檢驗(Rating、料號、極性接地標示、INALWAYS Logo、認證安規標志、模具編號...).												目視				
9. 其它: _____																