

## SPECIFICATION AND PERFORMANCE

Series	115F-SERIES 2	File	115F-SERIES 2_SPEC_1	Date	2016/01/20
--------	---------------	------	----------------------	------	------------

## Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of :

PART NUMBER	DESCRIPTION
115F-AAA2	HINGE TYPE, 6+2 PIN, G/F, REEL, W/PEG, W/SWITCH, W/LOGO
115F-AAA3	HINGE TYPE, 6+2 PIN, G/F, REEL, W/O PEG, W/SWITCH, W/LOGO
115F-P1401014	HINGE TYPE, 6+2 PIN, G/F, REEL, W/PEG, W/SWITCH, W/LOGO, 8.6 TYPE

## **Performance and Descriptions:**

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

## **RoHS**:

All material in according with the RoHS environment related substances list controlled.

MATERIAL AND FINISH			
INSULATOR	Material	LCP UL94V-0, Black	
CONTACT	Material	Contact: Phosphor Bronze C5210	
	Plating	Gold Flash plating on contact area, Tin plating on solder tails,	
		Nickel under-plating overall.	
COVER	Material	laterial LCP UL94V-0, Black	
RATING	Voltage Rating: 30V DC per pin Max.		
	Current Rating: 0.5A per pin Min.		
	Operating Temperature : -25°C to +85°C		
	Storage Temperature : -25°C to +85°C		

The information contained herein is exclusive property of ATTEND. Do not copy and print except that Attend accepts.本文件係屬立威科技股份有限公司所有;非經同意,不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。



**立威科技股份有限公司 Attend Technology Inc.** 新北市汐止區新台五路一段81號10樓之六 10F-6, No.81, Sec.1, Xintai 5th Rd, Xizhi-Dist., New Taipei City 221, Taiwan, R.O.C. TEL 886 2 2698 7028 FAX 886 2 2698 7078 WEBSITE www.attend.com.tw

ELECTRICAL			
Item	Requirement	Test Condition	
Contact Resistance	Initial: 30mΩ Max.	(EIA 364-23)	
	After test: 100mΩ Max.	Subject mated contacts assembled in housing to	
		20mV maximum open circuit at 100 mA maximum	
		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.	
Insulation Resistance	1000MΩ Min.	(EIA 364-21)	
		Apply a 500V DC between adjacent terminals and	
		between terminals to ground	
Dielectric Withstanding	500V AC for 1 minute at	(EIA 364-20)	
Voltage	sea level, No flashover or	Apply a voltage 500V AC R.M.S for 1 minute	
	insulation breakdown	between adjacent terminals and between terminals	
		to ground.	

MECHANICAL			
Item	Requirement	Test Condition	
Contact Normal Force	0.2N min. per Pin	Apply perpendicular force to terminal at the rate of	
		12.5mm/min. Measure contact normal force at	
		working height, read at return curve.	
Durability	No abnormal	Mate and unmate connector to 5000 cycles. Take	
	Contact Normal force:	reading at 5000 cycles.	
	0.2N min. pre Pin	1 cycles (card loaded) = lid closed->lid locked->lid	
	Contact Resistance:	unlocked->lid opened	
	100mΩ Max.	Exchange the actually card every 2000 cycles.	

The information contained herein is exclusive property of ATTEND. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意·不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。

-2 -



**立威科技股份有限公司 Attend Technology Inc.** 新北市汐止區新台五路一段81號10樓之六 10F-6, No.81, Sec.1, Xintai 5th Rd, Xizhi-Dist., New Taipei City 221, Taiwan, R.O.C. TEL 886 2 2698 7028 FAX 886 2 2698 7078 WEBSITE www.attend.com.tw

ENVIRONMENTAL			
Item	Requirement	Test Condition	
Vibration	No abnormal.	(EIA-364-28)	
	Contact Resistance:	Amplitude: 1.52mm P-P or 1.47mm/s^2	
	100mΩ Max.	Sweep time: 10~55~10Hz in 20 minutes	
	Discontinuity:	Duration: 12 time in each (total of 36 times)	
	1 microsecond Max.	Electrical: DC 100 mA current	
		Load shall be flowed during the test	
Thermal Shock	No abnormal.	(EIA 364-32 I)	
	Contact Resistance:	Subject mated connectors should be tested	
	100mΩ Max.	according to the condition listed below:	
		Temperature: -25 to 85°C	
		Cycles: 5 cycles	
		Exposure time at temp. Extremes: 30 minutes.	
Salt Spray	No abnormal.	Subject mated connectors to 24 hours Min. at 35°C	
		with 5%-Salt-solution concentration.	
Humidity	No abnormal.	(EIA 364-31)	
		Mate a dummy card and expose to $60\pm2^{\circ}$ C for 96	
		hours Relative humidity 90.Upon completion of the	
		exposure period, the test specimens shall be	
		conditioned at ambient room conditions for 1 to 2	
		hours, after which the specified measurements	
		shall be performed	
Heat Resistance	No abnormal.	(EIA 364-17)	
		Mate a dummy card and expose to 70±2°C for	
		96Hr Upon completion of the exposure period, the	
		test specimens shall be conditioned at ambient	
		room conditions for 1 to 2Hr, after which the	
		specified measurements shall be performed.	

The information contained herein is exclusive property of ATTEND. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意·不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。



**立威科技股份有限公司 Attend Technology Inc.** 新北市沙止區新台五路一段81號10樓之六 10F-6, No.81, Sec. 1, Xintai 5th Rd, Xizhi-Dist., New Taipei City 221, Taiwan, R.O.C. TEL 886 2 2698 7028 FAX 886 2 2698 7078 WEBSITE www.attend.com.tw

SOLDER ABILITY			
Item	Requirement	Test Condition	
Solderability	The surface of the portion	(EIA 364-52)	
	to be soldered shall at	After one hour steam aging.	
	least 95% covered	The object of test procedure is to detail a unfirm	
		test methods for determining sim card connector	
		solderability.	
		The test procedure contained here 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.	
Resistance to	No mechanical defect on	1).for MANUAL SOLDERING:	
Soldering Heat	housing or other parts.	Temperature : 380 ± 10°C	
		Immersion duration : $3 \pm 0.5$ sec.	
		2).for REFLOW SOLDERING:	
		Pre-heat : 150(Min)~200(Max) °C,	
		60 ~180 Seconds	
		Temperature : 260 ± 5 °C	
		Immersion duration : 10~40 sec.	

The information contained herein is exclusive property of ATTEND. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意,不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。



<u>立威科技股份有限公司 Attend Technology Inc.</u> 新北市汐止區新台五路一段81號10樓之六 10F-6, No.81, Sec.1, Xintai 5th Rd, Xizhi-Dist, New Taipei City 221, Taiwan, R.O.C. TEL 886 2 2698 7028 FAX 886 2 2698 7078 WEBSITE www.attend.com.tw



The information contained herein is exclusive property of ATTEND. Do not copy and print except that Attend accepts. 本文件係屬立威科技股份有限公司所有;非經同意,不得以任何覆寫、拷貝、翻印等方式私自據有。亦不得擅加毀損、塗改。