PROD	UCT SPECIF			
PRODUCT NAME	E: USB A TYF RIGHT	PE RECEPTACLE ANGLE, THROU	SINGLE <u>GH HOL</u>	<u>=,</u> <u>= </u>
PRODUCT NO:	USB /	A TYPE SERIES		
		XXUSRXR-341-X XXUSRXR-342-X USR04-A3-RXXX	X-XX-XX X-XX-XX X	
育鼎精密工業股份有限公司 ACRON PRECISION INDUSTRIAL CO., LTD 桃園縣八德市新興路 55號 NO55, Sin-Sing Road, Pa Ta City Taoyyuan Hajan, Taiwan				
TEL	:: 886-3-3629889 FAX :	886-3-3664917		
REVISION: ECR/ECN INFORMATION: EC No: DATE:	USB A TYPE R	ECEPTACLE SINGL E, THROUGH HOLE	E,RIGHT	<u>SHEET No.</u> 1 of 4
DOCUMENT NUMBER: PS-UB-0004	CREATED / REVISED BY: JEFF	CHECKED BY: DAVID	APPRO Tony	DVED BY: Chang



PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers the USB connector series with terminal tin plating and cover selective plating for IR reflow process.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER(S)

USB A TYPE RECEPTACLE SINGLE, RIGHT ANGLE, THROUGH HOLE W/O FLANGE: P/N:XXUSRXX-341-XX-XX ; USR04-A3-RXXXX

USB A TYPE RECEPTACLE SINGLE, RIGHT ANGLE, THROUGH HOLE W/ FLANGE: P/N: XXUSRXX-342-XX-XX-XX ;

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate drawings (XXUSRXX-341,342-XX-XX ; USR04-A3-RXXXX) for information on dimensions, materials, plating and markings.

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

MIL-STD-1344A EIA-STD- 202 EIA-364

4.0 RATINGS OF CONNECTOR

- 1. Rate Voltage: 30 V DC Rate Current: 1.5 A DC
- 2. Operating temperature: 0°C to +50°C Storage temperature : -20°C to +60°C

REVISION:	ECR/ECN INFORMATION:	TITLE:			SHEET No.
С	<u>EC No:</u> <u>DATE:</u> 2009/05/08	USB A TYPE RECEPTACLE SINGLE,RIGHT ANGLE, THROUGH HOLE			2 of 4
DOCUMEN	T NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPRO	OVED BY:
Р	S-UB-0004	JEFF DAVID Tony		Chang	
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A4](V.1).DOC					



PRODUCT SPECIFICATION

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Contact Resistance	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA.	30 milliohms MAXIMUM
Insulation Resistance	Unmated connector, mounted to a PCB: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM
Dielectric Withstanding Voltage	750 VAC rms (1mA cutoff current) for 60 seconds duration between adjacent terminals and terminals.	No Breakdown
Capacitance	Test between adjacent contacts to 1 Megahertz max per EIA-364.	2 picofarad MAXIMUM
Current Temperature Rating	Mate connector and measure the temperature rise at the rated current (1.5Amps).	30 ℃ rise MAXIMUM from initial

5.2 MECHANICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Connector Mate and Unmate Force	Mate connector at a rate of 25 ± 6 mm (1 ± $\frac{1}{4}$ inch) per minute.	3.57Kgf (35 N) MAXIMUM mate force 1.02 Kgf (10 N) MINMUM unmate force
Terminal Retention	Apply a pull out force in the axial direction of the contact per Mil-STD-1344A method 2007.1	0.8 Kgf minimum
Vibration	Mated connector and subject to the following vibration condition, for a period of 15 minutes in each 3 mutually perpendicular axes. Per EIA-364-28,Test condition V,Test letter A.	Contact Resistance 30 milliohms MAXIMUM Discontinuity ≦ 1 usec
Mechanical Shock	Subject mated connector to 30 G half sine in 11 msec according to EIA-364-27.	Contact Resistance 30 milliohms MAXIMUM Discontinuity ≦ 1 usec
Durability	Mate this connector with it's mating part of 1500 cycles. Mate this connector with it's mating part of 10000 cycles For P/N: USR04-A3-R1XXX Other conditions follow per EIA-364-09.	Contact Resistance 30 milliohms MAXIMUM

REVISION:	ECR/ECN INFORMATION:				SHEET No.
C	EC No:				3 of 1
C	<u>DATE:</u> 2009/05/08	ANGL	ANGLE, THROUGH HOLE		
DOCUMEN	T NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPRO	OVED BY:
Р	S-UB-0004	JEFF	DAVID	Tony	Chang
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A4](V.1).DOC					



PRODUCT SPECIFICATION

5.3 ENVIRONMENTAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Steady State Humidity	Mate connectors; Temperature: 40±2 °C Relative humidity: 90-95 % Duration time: 168 hours	Contact Resistance 30 milliohms MAXIMUM
Solderability	Dip solder tails into the molten solder (held at $245 \pm 5^{\circ}$) up to 1.0mm from the bottom of the housing for 3 ± 0.5 seconds	Solderable area shall have minimum of 95 % solder coverage
Temperature Life (Thermal Aging)	Subject mated connector to ambient temperature 125°C for 250 hours. Per Mil- STD-1344A method 1005.1 condition B	Contact Resistance 30 milliohms MAXIMUM
Thermal Shock	Subject mated connector to 10 cycles of exposure at -55°C and 85°C per EIA-364-32.	Contact Resistance 30 milliohms MAXIMUM
Reflow	Place connector in IR reflow , Peak temperature: 260 ± 5 °C for 5±1 seconds	Appearance : No damage

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage. See appropriate sales drawings.

7.0 OTHER INFORMATION

N/A

REVISION:	ECR/ECN INFORMATION: EC No: DATE: 2009/05/08	USB A TYPE R ANGL	ECEPTACLE SINGL E, THROUGH HOLE	E,RIGHT	<u>SHEET No.</u> 4 of 4
DOCUMEN	<u>T NUMBER:</u> S-UB-0004	CREATED / REVISED BY: JEFF	CHECKED BY: DAVID	APPRO Tony	OVED BY: Chang
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A4](V.1).DOC					