

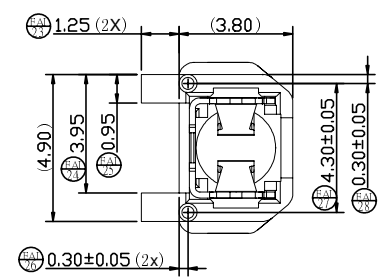
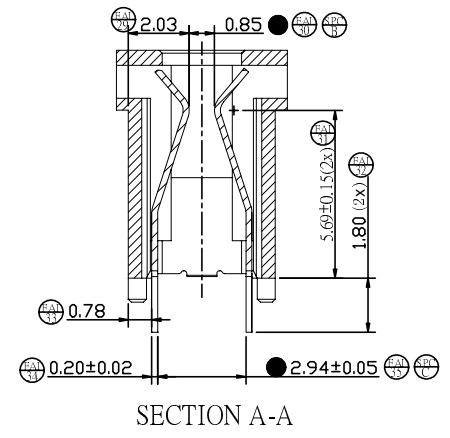
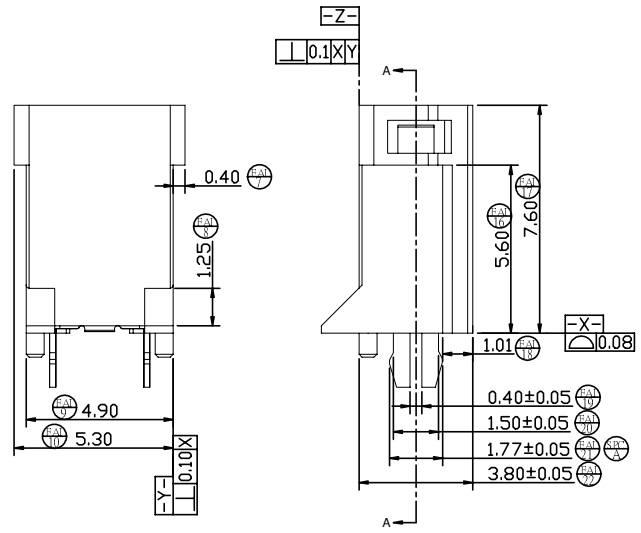
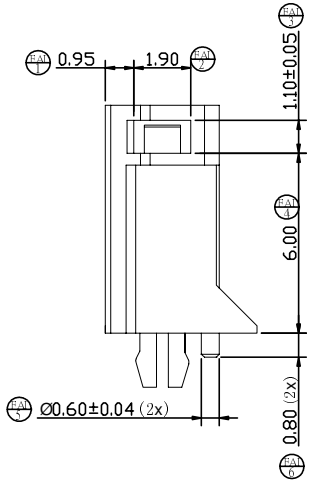
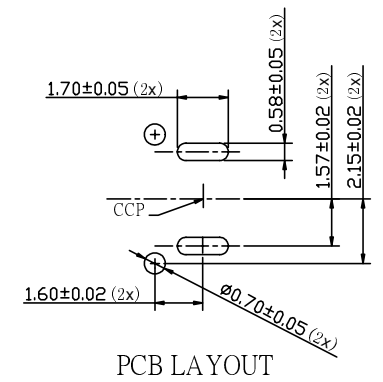
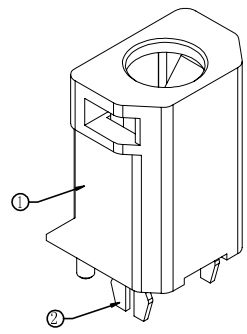
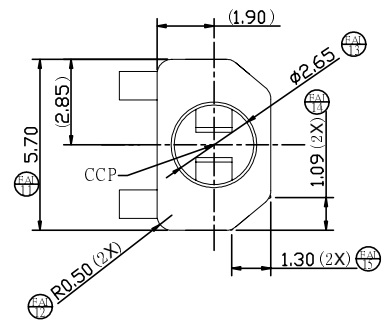
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CAD FILE: XS00001-23A

REV.	DESCRIPTION	DWG		APPROVED	
		NAME	DATE	NAME	DATE
X01	PROTOTYPE	Coco	02/18/2009	Knight	02/18/2009
X02	ADD SPEC.	Coco	03/03/2009	Knight	03/03/2009
X03	ADD FAI NO.	Coco	03/30/2009	Knight	03/30/2009


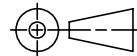
X03

- 1 ■ Functionally dim.
- ◆ Assembly dim.
- Control dim.



Approval Signature

ITEM	P/N REQ'D	DESCRIPTION	UNIT	Q'TY
②	25-11450-220	contact,phosphor bronze C7025	PC	1
①	2100-001-164	Housing ,LCP6130L,black	PC	1

INTENDED USE: ACT		 Advanced Connection Technology TAIWAN TEL: 886-2-88091060	
GENERAL DIMENSION		TITLE: AC Power Jack Connector 1Pin	DRAWN: Coco
XX±0.30	.XX±0.15	CHECKED: Ahua	03/30/2009
X±0.20	.XX±0.10	DWG NO: 318-00001-23	REV.: X03
		APPROVED: Knight	03/30/2009
UNIT: mm	SCALE: NONE	SHEET 1 OF 2	NAME DATE

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CAD FILE:XS00001-23B

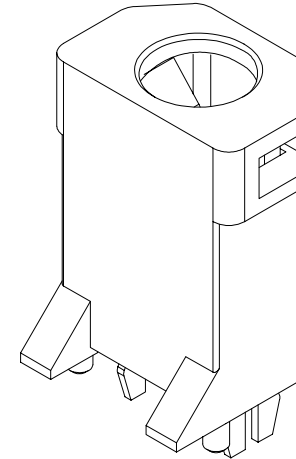
REV.	DESCRIPTION	DWG		APPROVED	
		NAME	DATE	NAME	DATE
X01	PROTOTYPE	Coco	02/18/2009	Knight	02/18/2009
X02	ADD SPEC.	Coco	03/03/2009	Knight	03/03/2009
X03	ADD FAI NO.	Coco	03/30/2009	Knight	03/30/2009

△03


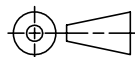
Note:(unless otherwise specified)

- 1 ■ Functionally dim.
- ◆ Assembly dim.
- Control dim.

- 1.0 Scope:This document specifies on AC power SMT connector
- 2.0 Applicable document:
- EIA-364-D Electrical connector/socket test procedures
 - MIL-STD-202 Test methods for electronic and electrical component parts
 - UL94 Test for flammability of plastic materials for parts in devices and appliances
 - ASTM B 196 Standard specification for beryllium copper alloy plate, sheet, strip and rolled bar
 - ASTM B 488 Standard specification for electroplated coatings of gold
 - AMS QQ-N-290 Nickel plating(electrodeposited)
 - 080-1581 Apple solder process and test specification
 - 080-1828 Apple ICD material policy molding connectors with "regrind" plastic
 - 069-1111 Apple ROHS compliance specification
 - 069-1857 Apple halogen-free specification
 - 069-0135 Apple regulated substances specification
 - ASME Y14.5M Standard for geometric dimensioning and tolerancing
- 3.0 Requirements
- 3.1 Physical:
- 3.1.1 Contact material:Phosphor bronze C7025 TM03,0.2+/-0.03 thick
- 3.1.2 Contact finish:minimum 30 u" gold flash over minimum .50 u" nickel underplat per AMS QQ-N-290
- 3.1.3 Housing material: DuPont zenite LCP 6130L,UL recognized rated V-0 per UL94 at 0.4 mm
- 3.1.4 Plastic color:Plastic surfaces shall be black
- 3.1.5.1 Contact normal force
- 30 gf minimum at 0.1mm deflection(minimum deflection)
 - 140 gf minimum at 0.4mm deflection(nominal deflection)
 - 240gf minimum at 0.7mm deflection(maximum deflection)
- 3.1.5.2 Contact/Housing retention force:1.0kgf minimum
- 3.1.7 Solderability:Leads must meet requirements of MIL-STD-202,Method 208.Prior to testing the unit under test shall be subjected to steam aging for a period of 8 hours
- 3.1.8 Markings:Must be clearly marked with manufacture's name or industry recognized logo
- 3.1.9 Dimensions:shall conform with all physical parameters specified hererin
- 3.1.10 Vibration:under testing per EIA-364-28E,condition 1, shall not sustain damage,exhibit discontinuity longer than 1 microsecond or contact resistance greater than 60mohm
- 3.1.11 Mechanical shock:mated connectors shall be subjected to mechanical shock per EIA-364-27B,test condition A, Three shocks in each derrection applied along three mutually perpendicular planes,18 total shocks,no discontinuity of 1us of longer duration
- 3.2.1 Contact resistance:30m ohm maximum
- 3.2.2 Current rating:1.0 A maximum load
- 3.2.3 Voltage rating:240 Volts
- 3.3 Encironmental:test samples shall be periodically subjected to the following conditions to verify process control
- 3.3.1 Resistance to convection or IR reflow soldering heat
- 3.3.1.1 Preheat 3/sec to 150°,using tin solder,reflow at 250° for 15-20seconds per Apple 080-1561
- 3.3.1.2 Compenet shall withstand three reflow cycles as described in section 3.3.1.1 with a cool down in-between
- 3.3.1.3 Following the application of soldering heat there shall be no evidence of leaching or cracking and connector must meet all physical and electrical specifications
- 3.3.2 Operating temperature:-20° to 65°
- 3.3.3 Humidity:after exposing mated connectors to a controlled humid enviroment per EIA-RS-364-31B,condition A,method IV The connectors must meet all physical and electrical specifications
- 3.3.4 Thermal shock:after exposure to 50 cycles thermal shock per EIA-364-31B,method A ,Test condition I,connectors must
- 3.3.5 Temperature life:after exposure to sustained elevated temperature per EIA-364-17,Method A ,Test condition 3 for 96 hours,connectors must meet all physical and electrical specifications
- 4.0 This component must comply with the following environmental specification
- Apple ROHS compliance specification 069-1111
 - Apple halogen-free specification 069-1857
 - Apple regulated substances specification 069-D135
- 5.0 Dimensions:
- 5.1 This drawing shows dimensions critiacl to function and for ongoing QC inspection
- Reference numbers:for first artical inspection(FAI) purposes
 - Critical dimensions:for statistical process control(SPC) purposes
- 5.2 All dimensions are related to a coordinated system defined by datums A,B,C per ASME Y14.5M-1994,all undimensioned features are controlled by the 3-D CAD database and a surface profile tolerance



Approval Signature

INTENDED USE: ACT		 Advanced Connection Technology TAIWAN TEL: 886-2-88091080			
GENERAL DIMENSION		TITLE: AC Power Jack Connector 1Pin		DRAWN: Coco 03/30/2009	
XX±0.30	X±0.15	DWG NO: 318-00001-23		CHECKED: Ahua 03/30/2009	
X±0.20	.XX±0.10	REV: X03		APPROVED: Knight 03/30/2009	
		UNIT: mm	SCALE: NONE	SHEET 2 OF 2	NAME DATE