

產品編號 Product Number :6604151BSS

(110 TYPE FEMALE TERMINALS)

項目	內容	頁數	備註
1	Design Records of Saleable Product 設計記錄	V 1	Drawing Name : 110 TYPE FEMALE TERMINALS 圖名：110 TYPE FEMALE TERMINALS
2	Engineering Change Documents (if any) 變更文件〔若有〕		N/A 無
3	Customer Engineering approval (if required) 工程設計核准〔若要求〕		N/A 無
4	Design FMEA 設計FMEA		N/A 無
5	Process Flow Diagrams 生產流程圖	V 1	Process Flow Diagrams 生產流程圖
6	Process FMEA 製程FMEA	V 4	FMEA 失效模式與效應分析
7	Control Plan 管制計劃	V 2	Control Plan 管制計劃
8	Measurement System Analysis Studies 量測系統分析	V 2	R & R Analysis 量測設備再現性與再生性分析表
9	Dimensional /Performance Test Results 尺寸/性能測試結果	V 2	I.S.I.R. & Performance Report 初期樣品檢驗報告與產品性能試驗 綜合報告
10	Material Results 材料結果	V 2	Material Report 材質證明
11	Initial Process Study 初期製程研究	V 2	X-Bar R Chart 平均值與全距管制圖
12	Qualified Laboratory Documentation 認可實驗室文件		N/A 無
13	Appearance Approval Report (AAR) 外觀核准書報告		Inappropriate 不適用
14	Sample Product 產品樣品		Sample Product N/A
15	Master Sample 主樣品		Undemanding 無需求
16	Checking Aids 檢查輔助器材		N/A 無
17	Records of Compliance with Customer-Specific Requirements 客戶特定要求之完整記錄		N/A 無
18	Part Submission Warrant (PSW) 送審保證書	V 1	PSW 送審保證書
	Bulk Material Requirements Checklist 散裝材料檢查表		Inappropriate 不適用

Supplier

HU LANE ASSOCIATE INC.

PROCESS FLOW DIAGRAM

Part Certification

Family name	Date (Orig.)	Prepared by					
	2010/8/12	S.W.WANG					
Part Number 6604151BSS	Date (Rev.) N/A	Title Product Engineer					
Part Name 110 TYPE FEMALE TERMINALS	Page 1 of 1	Phone Number 025-52774425-2303					
Cross Functional Team Members S.W.WANG L.JIANG A.Z.LV X.Y.WANG W.B.CHEN X.Y.LI A.JJI D.Y.GUO X.M.SUN C.Q.QIAN		Symbol Key: Manufacturing/Assembly Movement of Materials/Parts Storage of Materials/Parts Inspection					
Step #	Fab	Move	Store	Insp	Operation description	Item #	Special Characteristics
	◆	●	▲	■			
10	*				Receiving Material		label,material weight contact supervisor
20			*		Incoming Inspection		dimensional thickness,width,hardness,tensile strength,percentage elongation
30		*			Storage		storage specification contact supervisor
40	*				To get material		label contact supervisor
50	*				To set up a mold		process speed tool and process adjustments
60	*				Stamping		visuals,gages tool and process adjustments
70			*		process quality Inspection		dimensional,visual,performance W、H
80	*				Production(Labeling)		label quantity
90			*		Final Inspection		dimensional,visual,performance W、H
100		*			Storage		
110	*				Deliving		

CONTROL PLAN

Part Certification

HU LANE ASSOCIATE INC.

Control Plan Category <input type="radio"/> Prototype <input checked="" type="radio"/> Pre-Launch <input checked="" type="radio"/> Production	Key Contact Name jiangli		Date (Orig) 2010/8/12	Date (Rev) N/A	Page 1 of 3
Control Plan Number	Key Contact Phone 025-52774425-6113		Customer Engineering Approval (If Req'd)		Date (If Req'd)
Part Number 6604151BSS	ECL 2.0	Supplier / Plant Approval / Date		Customer Quality Approval (If Req'd)	
Part Name / Description 6604151BSS	Other supplier approval by (If Req'd)		Other Approval (If Req'd)		Date (If Req'd)
Supplier / Plant HU LANE ASSOCIATE INC.	Supplier Code	Other Approval Date (If Req'd)			

Core team Members S.W.WANG L.JIANG A.Z.LV X.Y.WANG W.B.CHEN X.Y.LI A.JJI D.Y.GUO X.M.SUN C.Q
Manufacturing plant maintains listing of all Gage Numbers.

Part / Proc. #	Process Name / Operation description	Machine, Device, Jig, Tools For Mfn	Characteristics			Special Char. Class	Methods				Reaction Plan	
			No.	Product	Process		Product / Process Specification / Tolerance	Evaluation / Measurement Technique	Sample Size	Sample Freq.		
10	Receiving Material			LABEL QUANTITY	PERFORMANCE		PERFORMANCE RECORD		ONCE	100%	Visual insp.	PUT OUT THEN REPORT TO PURCHASER
20	Incoming Inspection			MATERIAL WIDTH			+0 27.5 -0.1 mm	VERNIER CALIPER				
				MATERIAL THICKNESS			0.30±0.01mm	MICROMETER				
				TENSILE STRENGTH			411~539N/mm ²					
				ELONGATION RATE			> 12%	MICRO-COMPUTER UNIVERSAL TESTING MACHINE	per lot package/roll 1~5: 1PC 6~10: 2PCS 11~20: 3PCS 21~30: 4PCS 31~40: 5PCS 41~50: 6PCS 51~60: 7PCS 61: 8PCS		CHECK "RECEIVING RECEIPT" SPECIFICALLY FOR Part No.	segregate, put out then report to supervisor and purchaser
30	Storage			AVOIDING DAMP			PACKAGE AND stack layers		ONCE	100%	RECEIVING RECEIPT	PUT ON IT

CONTROL PLAN

Part Certification

HU LANE ASSOCIATE INC.

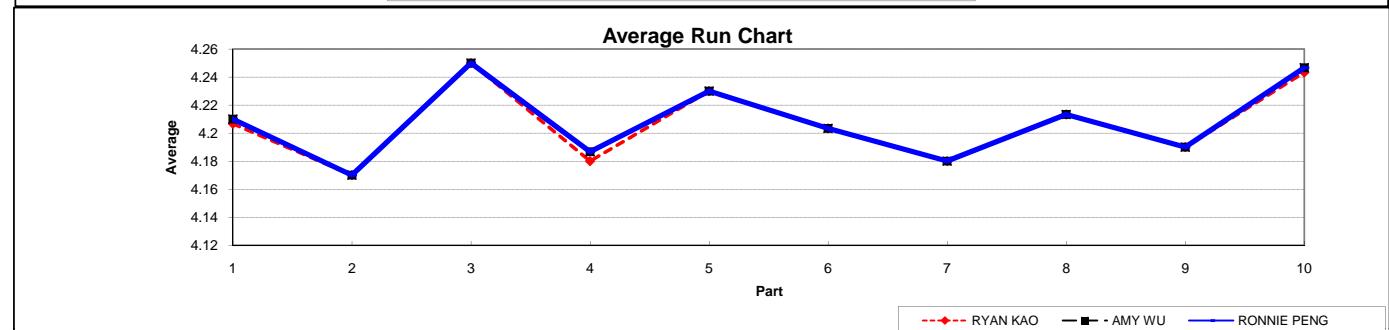
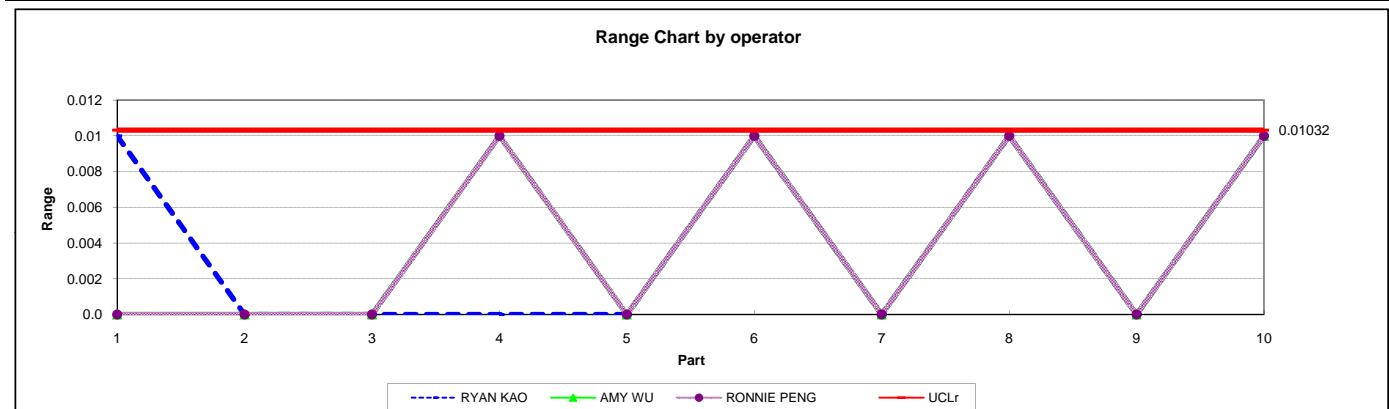
Control Plan Category <input type="radio"/> Prototype <input checked="" type="radio"/> Pre-Launch <input checked="" type="radio"/> Production		Key Contact Name jiangli		Date (Orig) 2010/8/12	Date (Rev) N/A	Page 3 of 3				
Control Plan Number		Key Contact Phone 025-52774425-6113		Customer Engineering Approval (If Req'd)			Date (If Req'd)			
Part Number 6604151BSS		ECL 2.0	Supplier / Plant Approval / Date		Customer Quality Approval (If Req'd)			Date (If Req'd)		
Part Name / Description 6604151BSS		Other supplier approval by (If Req'd)		Other Approval (If Req'd)			Date (If req'd)			
Supplier / Plant HU LANE ASSOCIATE INC.		Supplier Code		Other Approval Date (If Req'd)						
Core team Members S.W.WANG L.JIANG A.Z.LV X.Y.WANG W.B.CHEN X.Y.LI AJJI D.Y.GUO X.M.SUN C.Q										
Manufacturing plant maintains listing of all Gage Numbers.										
Part / Proc #	Process Name / Operation description	Machine, Device, Jig, Tools For Mfg	Characteristics		Special Char. Class	Methods				Reaction Plan
			No.	Product		Process	Product / Process Specification / Tolerance	Evaluation / Measurement Technique	Sample Size	
			B		1.00±0.10	CALIPERS				
100	Storage	AVOIDING DAMP/stack layers			4 layers max	visual	100%	per lot	WAREHOUSE WARRANT	segregate、 review or adjust the storage environment
110	Deliving		label		customer requirement	visual	100%	per lot	PACKING LIST	segregate and sort

Supplier HU LANE ASSOCIATE INC.	REPEATABILITY AND REPRODUCIBILITY ANALYSIS REPORT	<input checked="" type="radio"/> Using TOLERANCE method <input type="radio"/> Using Part to Part variation
Part Certification	NON DESTRUCTIVE TEST	

PLEASE SPECIFY THE FOLLOWING PARAMETERS AND COMPLETE THE FORM ACCORDINGLY				PARAMETERS ARE	
K ₁ Number of Trials	Must be either 2 or 3	3	OK		
K ₂ Number of Operators	Must be either 2 or 3	3	OK		
K ₃ Number of Parts	Can be any value between 2 and 10	10	OK		

GAGE APPROVED, USE IT			
Part number	6604151BSS	Part name	110 TYPE FEMALE TERMINALS
Characteristic	4.2	Gage number	BDA07
Tolerance	0.2	Gage name	CALIPERS
Tolerance (Tol)	0.2	Gage ECL/revision	0
		Plant	00
		Coord by	jiangli
		Phone #	
		Date	2014/11/19

Guidelines for acceptance of gage repeatability and reproducibility (%R&R): UNDER 10% ERROR: Gage system OK 10% to 30% ERROR: May be acceptable based upon importance of application. Calculate "breakpoint" = RPN x (% Gage R&R/100) and check that is less than 37.8 and (% Gage R&R) less than 30%. See next page for conclusion of usage. OVER 30% ERROR: Gage system needs improvement. Identify the problems and have them corrected.	
DETERMINE THE RISK PRIORITY NUMBER (RPN) FROM THE FMEA ASSOCIATED WITH THE DIMENSION BEING GAGED. TYPE THE RPN # UNDER THE RPN # FIELD PROVIDED (RIGHT) AND FOLLOW INSTRUCTION OF USAGE IN NEXT ROW: $\text{BREAKPOINT} = \frac{\text{RPN} \#}{x \cdot \%GRR/100}$ $2.63 = \frac{42.0}{x \cdot 0.06262}$	
CONCLUSION IS ...	
GAGE APPROVED, USE IT	



Notes:

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初期產品性能檢驗報告

Supplier HU LANE ASSOCIATE INC.		ECL 2.0	Part Number 6604151BS0					Date 2014/11/19	
Name of Laboratory HU LANE ASSOCIATE INC.		Part Name 110 TYPE FEMALE TERMINALS					Date 2014/11/19		
項次	試驗項目	試驗要求	檢驗結果					符合 OK	不符 NG
			1	2	3	4	5		
1	拉力測試 HOLDING FORCE OF TERMINAL	0.3~0.85kgf	0.65	0.60	0.65	0.65	0.60	OK	
2	推入力 TERMINAL INSERTION FORCE	0.3~0.85kgf	0.72	0.75	0.77	0.74	0.74	OK	
	審核 蔣莉	職務 Q.A. Supervisor						日期 2014/11/19	

中铝洛阳铜业有限责任公司

CHINA CO LuYang Copper Co.,Ltd

产品质量证明书

CERTIFICATE OF QUALITY

日期Date: 14-02-13


顾客/Customer		南京胡连			合同号/Contract No.			
牌号	状态	规格(mm)		批号	数量/Amount		重量	
Grade Number(No.)	Condition Of Supply	Size		Batch No.	箱/捆	卷数	weight	
					Case/Bond	Quantity		
C2680	H	0.3*27.5		508B095	-	-	562	
		0.3*28						552.5
机械性能/Mechanical Properties							产品标准/Product standard	
项目 Item	抗拉强度 Rm(N/mm ²)	延伸率 A1.0(%)	硬度(HV)	导电率 Expansion	表面处理 Surface Treatment	尺寸公差 Size Tolerance		GB/T2059-2008
						厚度	宽度	
实测	450	22/23	152/158	-	-	+/-0.01	+0/-0.1	货到后请立即拆包(箱)验收入库存放室内干燥处,验收后如有异议,请在收货后三个月内函告本集团公司,并注明本证入库日期,产品牌号,状态,规格,合检号,批号,交售日期,重量,生
化学成分/Chemical Composition (%)							Description	
元素 Element	CU	Fe	Pb	Ni	Zn	杂质总和		
标准 Spec	63.5-68	≤0.1	≤0.03	≤0.5	余量	≤0.3	Upon products arriving, please dismount to check at once and store in dry place indoor. If there are some objections, please inform us by mail within 3 months from receiving the products. Note clearly the date of storing, product name, grade No, conditions, size, contract No, batch No, date of delivery, weight, No. and manufacturer No etc in order to	
实测 Actual	65.8	0.085	0.019	0.36	余量	0.15		
备注	产品尺寸精度及表面质量均符合标准							
Remark	Accuracy of size and quality of surface are in keeping with standard							

检查员/Inspector: 03

WI-QC01-A-002

