®昆山市瑞亚微电子有限公司
Kunshan Ruiya Microelectronics Co.,Ltd.
江苏省昆山市北门路 1014 号
Tel:0512-57822958 Fax:0512-57755664

[redacted]

Kunshan Ruiya Microelectronics CO.,Ltd 昆山市瑞亚微电子有限公司 工程部

客户名称：华凌光电（常熟）有限公司

客户地址：常熟市辛庄镇台资工业园 A 区

客户料号：CNE5531XXXXXXXXXXX05

品名规格：FPC PH1.0 1*20P 上接抽屉式 镀锡 卷装

样品提供（SAMPLE PROVIDE）		
工程 Engineering	业务 Sales	核准 Approval
庞晓红	单英	毛再旭

客户确认（CUSTOMER APPROVAL）		
工程 Engineering	品管 Q.C	核准 Approval

承認 2018.01.29 華凌光電（常熟）有限公司 工程

备注（NOTE）：

Represented by:

first FC components

FIRST Components srl Via Cavour 69, 21020 Buguggiate (VA)

T. +39 0332 1888005 web: www.first-components.com

RUIYA® 昆山市瑞亚微电子有限公司
Kunshan Ruiya Microelectronics Co.,Ltd.
Tel:0512-57822958 Fax:0512-57755664

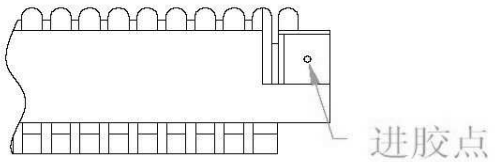
变更联络函

尊敬的客户：

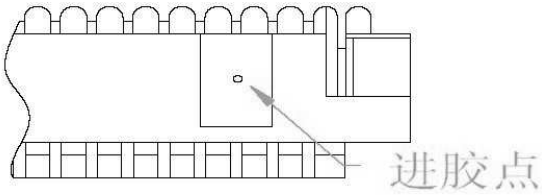
针对所交贵司料件，明细如下：

贵司料号为 CNE6531XXXXXXXXXXX08(FPC1.0D-WTX-20P) 和 CNE5531XXXXXXXXXXX05（FPC1.0D-WTS-20P），由于我司此系列产品塑胶模老化，模穴率低，无法满足生产需求，同时为增强产品平整度，降低产品焊接后出现虚焊现象的概率，新增开发一套塑模满足生产，因新塑模进胶点与老模进胶点不同，老模进胶点在左边，新模进胶点在偏中间部位，同时因注塑点有点毛边，为确保不影响焊接工艺即产品置放在 PCB 上出现翘曲，以致在塑胶表面做以加工处理即增加凹槽，建议变更为新物料，两者区别如下图所示：

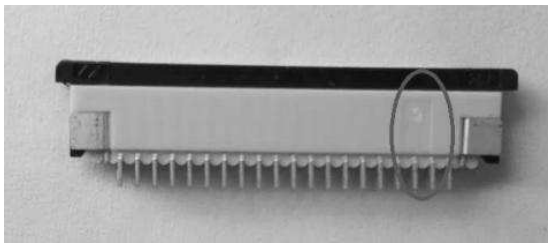
塑胶体注塑点变更前（图示）：

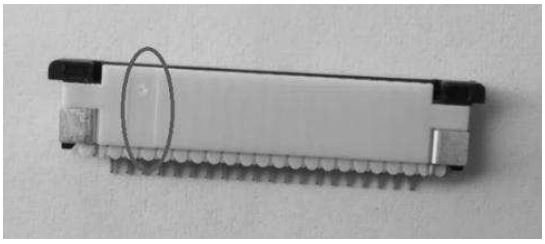


塑胶体注塑点变更后（图示）：



变更后新塑胶体如下所示：

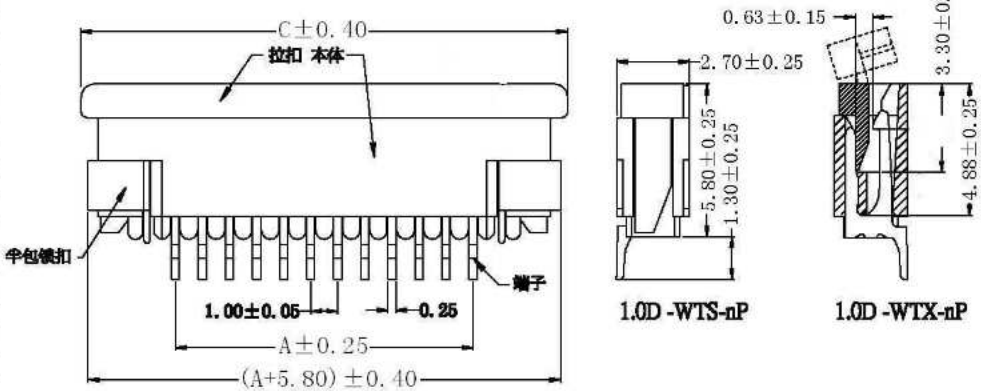


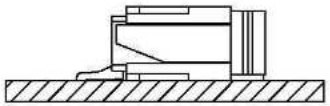


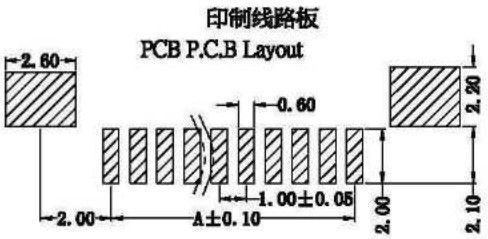
以上！

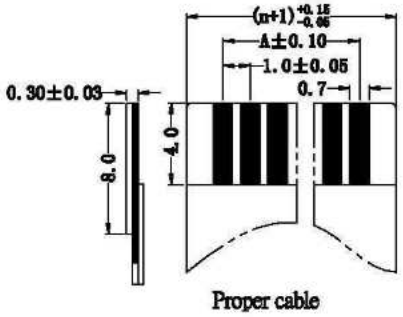
昆山市瑞亚微电子有限公司
2018 年 01 月 12 日

孔位 Poles	A	B	C
4	3.00	5.10	10.5
5	4.00	6.10	11.5
6	5.00	7.10	12.5
7	6.00	8.10	13.5
8	7.00	9.10	14.5
9	8.00	10.10	15.5
10	9.00	11.10	16.5
11	10.00	12.10	17.5
12	11.00	13.10	18.5
13	12.00	14.10	19.5
14	13.00	15.10	20.5
15	14.00	16.10	21.5
16	15.00	17.10	22.5
17	16.00	18.10	23.5
18	17.00	19.10	24.5
19	18.00	20.10	25.5
20	19.00	21.10	26.5
21	20.00	22.10	27.5
22	21.00	23.10	28.5
23	22.00	24.10	29.5
24	23.00	25.10	30.5
25	24.00	26.10	31.5
26	25.00	27.10	32.5
27	26.00	28.10	33.5
28	27.00	29.10	34.5
29	28.00	30.10	35.5
30	29.00	31.10	36.5
31	30.00	32.10	37.5
32	31.00	33.10	38.5
33	32.00	34.10	39.5
34	33.00	35.10	40.5
35	34.00	36.10	41.5
36	35.00	37.10	42.5
37	36.00	38.10	43.5
38	37.00	39.10	44.5
39	38.00	40.10	45.5
40	39.00	41.10	46.5




安装图 (Assembly Layout)





技术参数 SPECIFICATIONS

RoHS

- ◆ 极数: 4~40 Poles: 4~40
- ◆ 额定电压: AC, DC, 50V(50HZ有效值) Voltage rating: AC, DC, 50V(50HZ)
- ◆ 额定电流: 0.4A, AC, DC Current rating: 0.4A, AC, DC
- ◆ 耐压值: 200V AC/minute Withstand voltage: 200V AC/minute
- ◆ 工作温度: -25℃~+85℃ Working Temperature: -25℃~+85℃
- ◆ 绝缘电阻: ≥800 MΩ Insulation resistance: ≥800 MΩ
- ◆ 接触电阻: ≤0.02Ω Contact resistance: ≤0.02Ω
- ◆ 单面接触: Single Contact

接触件 (TERMINAL)

- ◆ 材质: 磷青铜 Material: Phosphor Bronze

塑胶本体 (HOUSING)

- ◆ 材质: 热塑性塑料, Nylon UL 94V-0 Material: Thermoplastic, Nylon UL94-0

包装方式 PACKAGE

- ◆ 卷装 Reel Package

Storage condition(储存条件):
Recommended(推荐)
Temp:15度~25度(温度15度~25度)
Humidity:30~75RH%(湿度30~75RH%)

Part No : FPC 1.0 D - W T S - nP (半包)

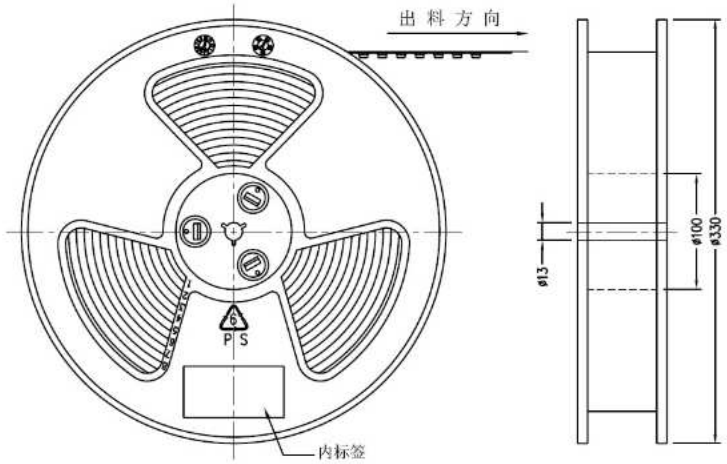
- 间距 (Pitch)
- 型号: (Model)
- 卧式: W (Horizontal pype W)
- 贴式: T (SMT:T)
- 上接点: S (下接点: X)
- 线数: (Hole location)

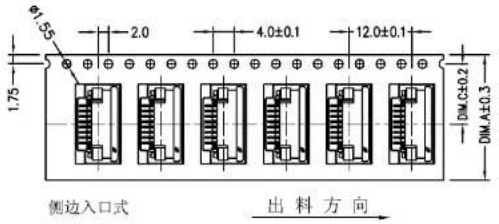
RUIYA Tel:0512-57822958 Fax:0512-57755664 昆山市瑞亚微电子有限公司 Kunshan Ruiya Microelectronics Co.,Ltd	GENERAL TOLERANCE		SCALE: 4:1	DRAWN:	DATE:	DWG. NO. : E:\DWG\Production\1.0D	TITLE: 成品图	REV. A
	XX. ±0.40		UNIT: mm	CHECK:	DATE:	PARTS NO. : FPC1.0D-WTS(X)-nP(半包)		SHEET: 1/1
	X. ±0.30		SIZE: A4	APPROVE:	DATE:			
	.X ±0.25	X.° ± 2°						
	.XX ±0.15	.X° ± 1°						

备注：

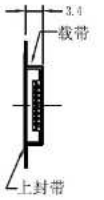
1. 10个孔的累积公差为±0.2mm
2. 载长250mm内允许弯曲度1.0mm
3. 材质：PS；100%回收再利用
4. 所有尺寸符合EIA-481-C要求
5. 上封带剥离强度：20 g~130 g(0.2N~1.3N)
6. 13英寸的卷盘每卷可装载1500PCS

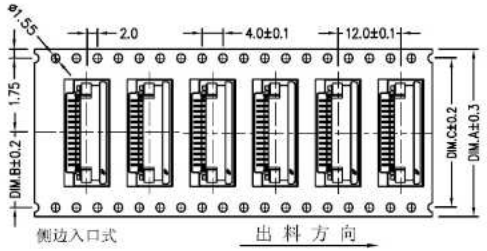
PIN数	DIM=A	DIM=B	DIM=C	箱数(PCS)
04P-11P	24.0	11.5	——	12卷=18000PCS
12P-15P	32.0	14.25	28.50	9卷=13500PCS
16P-26P	44.0	20.25	40.50	7卷=10500PCS
27P-35P	56.0	26.25	52.50	5卷=7500PCS
36P-40P	72.0	34.25	68.50	4卷=6000PCS





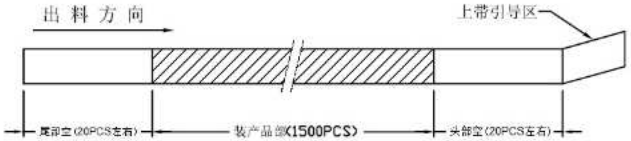
载带宽:24.0mm.

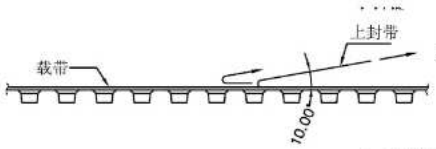


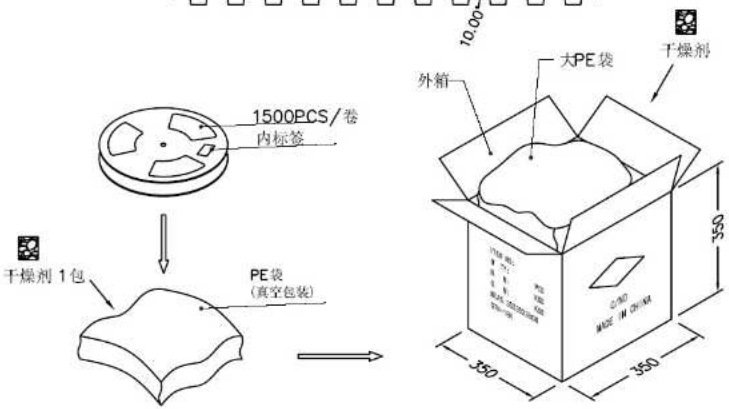




载带宽:32.0mm/44.0mm/56.0mm/72.0mm.







单位：[mm]

RUIYA® Tel: 0512-57822958 Fax: 0512-57755664 昆山市瑞亚微电子有限公司 Kunshan Ruiya Microelectronics Co.,Ltd.	GENERAL TOLERANCE: XX. ±0.40; X. ±0.30; .X ±0.25 X.° ± 2°; .XX ±0.15 .X° ± 1°	SCALE: UNIT: mm SIZE: A4	DRAWN: 魏巧珍 CHECK: 伍百草 APPROVE:	DATE: 2016-10-25 DATE: 2016-10-25 DATE:	DWG. NO. : E:\DWG\Production\FPC1.0D PARTS NO. : FPC1.0D-WTS/X-NP	TITLE: 包装图	REV. A SHEET: 1/1

昆山市瑞亚微电子有限公司

Kunshan Ruiya Microelectronics Co.,Ltd.

样品检验报告单

NO：

品 名 规 格 Description	1.0D-WTS-20P			客 户 名 称 Cust.Name	华凌光电			
客户料号 Cust.P/N	CNE5531XXXXXXXXXXX05			送货单号 Delivery NO.				
抽 样 标 准 Sam.Standard	MIL-STD-105E			单次抽样 正常II级 Single Sam. Normal II				
批 量 数 Lots.Q'ty	10PCS	抽 样 数 Sam.Q'ty		允 收 标 准 AQL	CR=	MAJ=	MIN=	
项 目 Item	检验重点及标准 Inspection Major and Standard				量 测 仪 器 Instrument		判 定 Judge	
外 观 检 查 Appearance	产品无脏污 端子无氧化 塑胶无损坏 无歪斜针				目 视 VisualUnaided Eyes		OK	
可 焊 性 Soderadility	250±5℃ T=3-5S,沾锡饱满，沾锡面积达95%以上 (an area of full tin plating over95%)				锡炉 Solder Machine		OK	
耐 焊 锡 热 Res.of Solder Heat	250±5℃, T=2 Minutes,无熔化、起泡 (No Melting and No Bubbling)				恒温干燥箱 Thermostatic Drying Oven		OK	
机械特性 Mach.Feature	保持力 Reten.F		0.30KG/P		拉拔力测试仪		OK	
	插入力 Inser.F		0.30KG/P		Pulling Force Tester			
	拔出力 Withd.F		0.30KG/P				OK	
电气特性	见产品工程图				绝缘测试仪		OK	
Elec.Feature					Insulation Tester			
包装检查	PCS/盒(box) * 内箱(innner carton) * 外箱				目视			
Packing Check	(master carton)+ PCS备品(spare parts)= PCS				VisualUnaided Eyes			
符合效度								
Congruent.Validity					PCB板			
	尺寸量测 Test of Dimension Measurement							
序 号	规 格 要 求	量测记录 Test Record						
01	A=19.00	19.02	19.08	19.05	18.97			
02	B=21.10	21.11	21.05	21.13	21.15			
03	C=26.50	26.55	26.52	26.50	26.54			
04	D=2.70	2.72	2.76	2.74	2.70			
综合判定(Synth.Judge)	■ 允收(Accept)				□ 拒收(Reject)			
审核(Approved by): 唐敏 02/03.2015				检验员(Inspector): 付红 02/03.2015				

PA6T E430NK 三井化学株式会社 物性数据

	吸水率	23℃,24 小时在水里 (2mmt,100℃)	ASTM D-570	0.3(3.0)	%
	模具收缩率	2mmt	ASTM D-955	0.4(0.8)	%
	比重	---	ASTM D-792	1.63	---
	拉伸强度	dry(moist)	ASTM D-638	160(140)	MPa
	拉伸伸长率	dry(moist)	ASTM D-638	4(3)	%
	弯曲强度	dry(moist)	ASTM D-790	240(200)	MPa
	弯曲模量	dry(moist)	ASTM D-790	11000(8000)	MPa
	IZOD 缺口冲击强度	dry(moist)	ASTM D-256	80(90)	J/M
	洛氏硬度	---	ASTM D-785	95	M scale
	体积电阻率	dry	ASTM D-257	10^{15}	Ω.cm
	介电常数	10^{16}Hz,dry	ASTM D-150	4.0	---
	损耗因数	10^{16}Hz,dry	ASTM D-150	25	---
	Dielectric breakdown voltage	dry	ASTM D-149	25	KV/mm
	熔点	---	---	310	℃
	玻璃转变温度	---	---	85	℃
	负荷挠曲温度	---	ASTM D-648	290	℃
	线性热膨胀系数	---	ASTM D-696	3.0(6.0)	$\times 10^{-5}$/℃
	阻燃性	---	UL 94	V-0	---
	Glass fiber content	---	---	30	%

DuPont Trading (Shanghai) Co, Ltd

Shanghai 200000. ÖÐ¹ú

31/08/2009

WGJ COMPANY LTD

TA-KANG VILLAGE, KWEI-SHAN HSIANG
NO.5, TING FU 5TH STREET
TAOYUAN HSIEN - 333

DUPONT ORDER NO: 2067773
CUSTOMER PO NO: IO/3D5-843-09/R1
DELIVERY DATE: 21/09/2009
DELIVERY NO: 33378247
FAX NUMBER:

Certificate of Analysis

This is to Certify that the Product and Batch Number(s) listed below, shipped to you on the above Order meet Specification(s).

QUALITY ASSURANCE

PRODUCT(S)	BATCH(S)	QUANTITY	SPECIFICATION(S)
ZYTEL(R) HTNFR52G30NH BK337 25 KG BAG NYLON RESIN	ACPJG7A106	5000.00	DUPONT STANDARD SPEC

THIS PRODUCT CERTIFICATION IS NON-TRANSFERABLE AND IS VALID ONLY TO THE FIRST END-USER PURCHASING THIS PRODUCT DIRECTLY FROM DUPONT OR FROM A DUPONT-AUTHORIZED DISTRIBUTOR. PRODUCT AND/OR PRODUCT CERTIFICATION OBTAINED FROM AN UNAUTHORIZED SOURCE IS ASSUMED COUNTERFEIT, AND DUPONT MAKES NO WARRANTIES AND ASSUMES NO LIABILITY IN CONNECTION WITH THE USE OF PRODUCT OR PRODUCT CERTIFICATION OBTAINED FROM AN UNAUTHORIZED SOURCE. *Call 86-21-28921224 for a list of authorized distributors in your area.* Copyright © 2006 DuPont Trading (Shanghai) Co. Ltd. All Rights Reserved. Property of DuPont Trading (Shanghai) Co. Ltd. No portion of this work may be reproduced in whole or in part by any electronic, mechanical or other means, including xerography, photocopy, or any information storage or retrieval system, or otherwise distributed without the express permission of DuPont Trading (Shanghai) Co. Ltd.

PRODUCT : ZYTEL(R) HTNFR52G30NH BK337 25 KG BAG NYLON RESIN
SPECIFICATION : DUPONT STANDARD SPEC

TESTS	TEST METHOD	LIMITS MIN	LIMITS MAX	RESULTS
(BATCH TEST)			BATCH NO: ACPJG7A106	
Ash Content %	ISO 3451/1	31.0	37.0	33.4
Water Content at Packout, %	ISO 15512		0.20	0.05

THIS PRODUCT CERTIFICATION IS NON-TRANSFERABLE AND IS VALID ONLY TO THE FIRST END-USER PURCHASING THIS PRODUCT DIRECTLY FROM DUPONT OR FROM A DUPONT-AUTHORIZED DISTRIBUTOR. PRODUCT AND/OR PRODUCT CERTIFICATION OBTAINED FROM AN UNAUTHORIZED SOURCE IS ASSUMED COUNTERFEIT, AND DUPONT MAKES NO WARRANTIES AND ASSUMES NO LIABILITY IN CONNECTION WITH THE USE OF PRODUCT OR PRODUCT CERTIFICATION OBTAINED FROM AN UNAUTHORIZED SOURCE. *Call 86-21-28921224 for a list of authorized distributors in your area.* Copyright © 2006 DuPont Trading (Shanghai) Co. Ltd. All Rights Reserved. Property of DuPont Trading (Shanghai) Co. Ltd. No portion of this work may be reproduced in whole or in part by any electronic, mechanical or other means, including xerography, photocopy, or any information storage or retrieval system, or otherwise distributed without the express permission of DuPont Trading (Shanghai) Co. Ltd.

浙江万力铜业有限公司
ZHEJIANG WANLI COPPER INDUSTRY CO.,LTD

产品质量证明书
PRODUCT QUALITY CERTIFICATE

客户名称：
Customers name 兴铜五金

发货日期：2011.6.17

牌号 Alloy NO	规格 Specification	状态 Appearance	公差（mm） 厚度	公差（mm） 宽度	重量 Weight	件数 Quantity	生产批号 Batch No	
C5191	03X305	EH	-0.01				21032	
化学成份 Chemical Composition(%)	Cu	Sn	P	Fe	Pb	Zn	Mn	Ni
	93.6	5.90	0.119	0.012	0.0049	0.191	—	—
试验项目 Experiment items	抗拉强度 N/MM²	延伸率 %	硬度 HV	检验部门签章有效 Valid by the stamp of examination section			本证书所列产品经本厂检验结果，特此证明。	
	714	4	217				如有异议，请保留本证书及时与本公司联系，协商解决。	
执行标准 Voluntary standards	JIS H3110-2006			检验员：			证明书复印无效	

浙江万力铜业有限公司 品質部