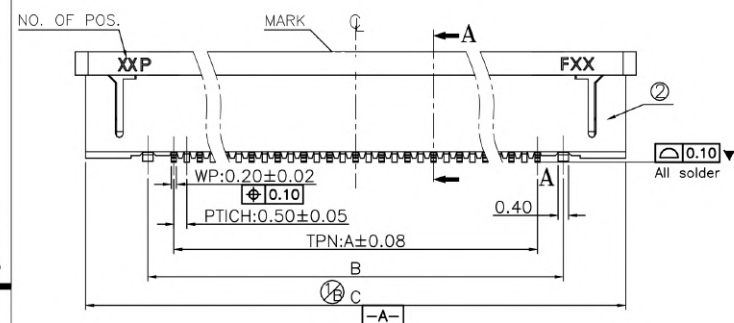
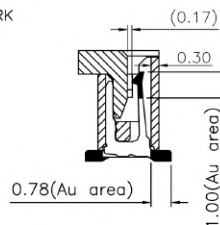
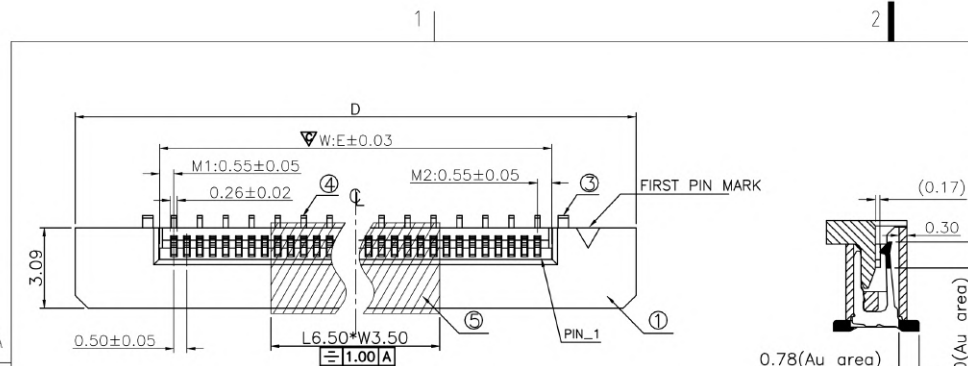
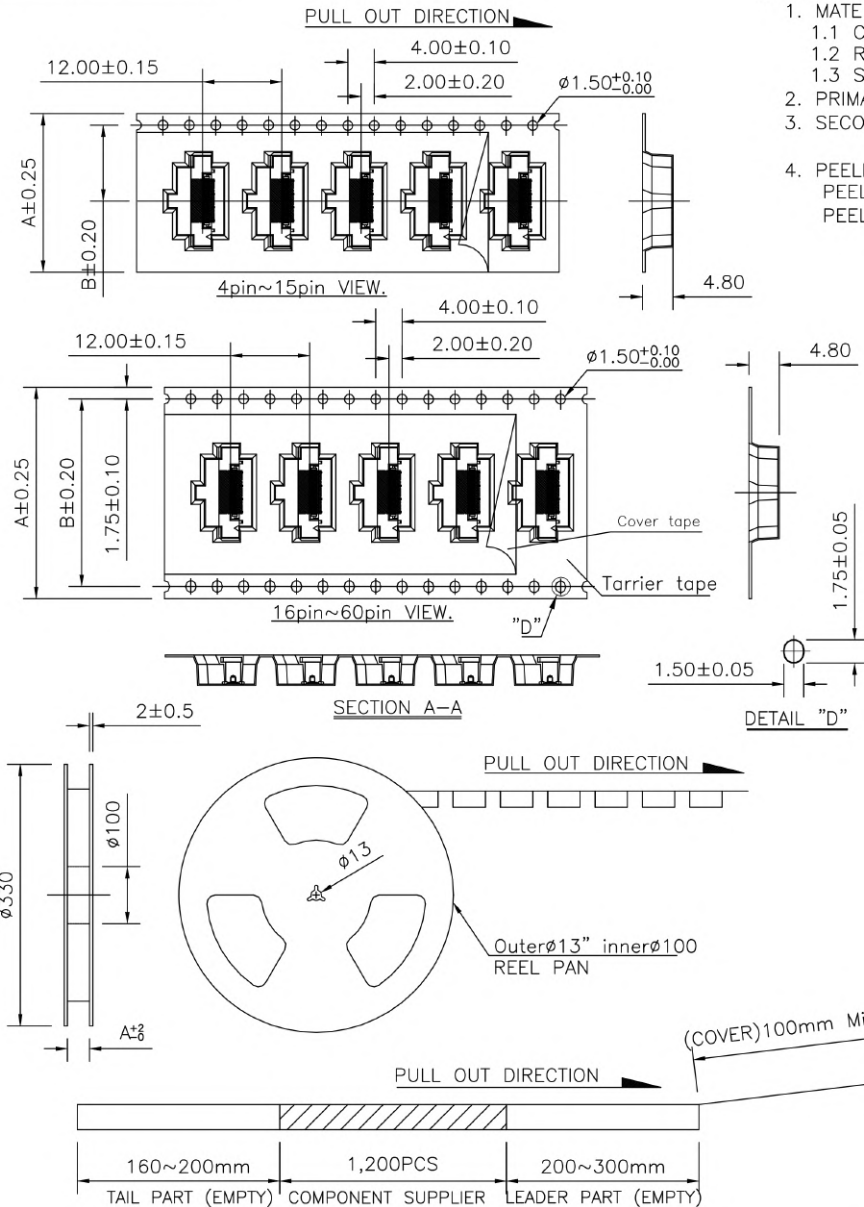




1. PACKING INTO REEL:



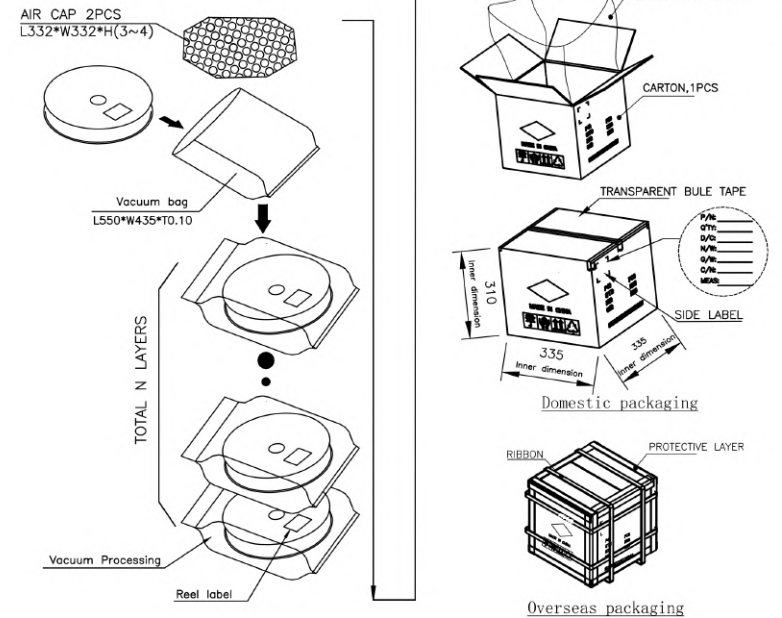
NOTES:

- MATERIAL:
 - CARRY TAPE:HIPS,T=0.35mm,CLEAR
 - REEL:HIPS,BLUE.
 - SHIM:PE,CLEAR.
- PRIMARY PACKING:1,200PCS/REEL.
- SECONDARY PACKING:"N"REELS/CARTON
("TOTAL"=N*1200/CARTON).
- PEELING RESISTANCE: 0.1N~0.7N(10~70gf);
PEELING ANGLE: 165°~180°;
PEELING SPEED: 300mm/minutes.

5. LIST

DIM	NO.	4~15	16~25	26~50	51~60
A		24.00	32.00	44.00	56.00
B		16.40	28.40	40.40	52.40
N		10	8	6	5
TOTAL(PCS)		12000	9600	7200	6000

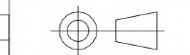
2:PACKING INTO OUTER BOX



UNLESS OTHERWISE SPECIFIED
TOLERANCES

X.	±0.30	X. *	± 5'
X.X	±0.25	X.X *	± 4'
X.XX	±0.20	X.XX *	± 3'
X.XXX	±0.15	X.XXX *	± 2'
LINEAR DIMS		ANGLES DIMS	

ANGLE OF PROJECTION



DOC
TYP

Customer Drw

DRAWN DATE May 2014-12-25

DESIGN DATE May 2014-12-25

CHECKED DATE Rain.Han 2014-12-25

APPROVED DATE Leo.Liu 2014-12-25

DWG NO.: A-S0107

MATERIAL SEE NOTES

FINISHED SEE NOTES

Horus Int. Electronics. Co., LTD.
HorusTech Electronics. Co., LTD.

TITLE:

Assembly Drawing For 0.50mm pitch 30~60PIN
VERTICAL SMT A TYPE,SLIDER SERIES

SIZE

A4

SCALE

1:1

PART NUMBER:

HRS-F314-1A**1-110**

HRS-F336-1A**1-110**

UNIT : mm

SHEET

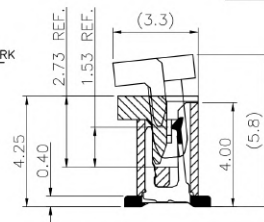
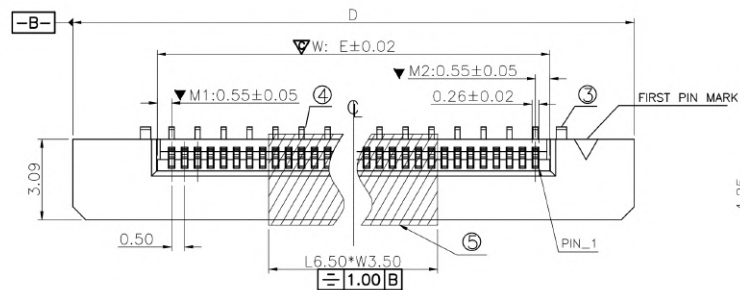
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OF

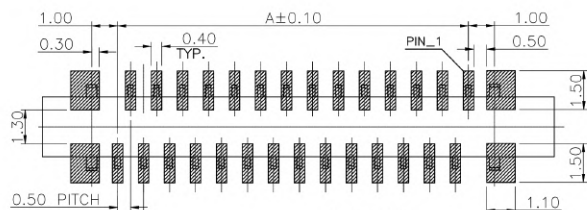
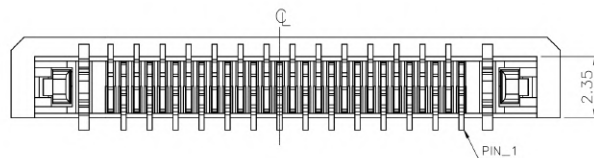
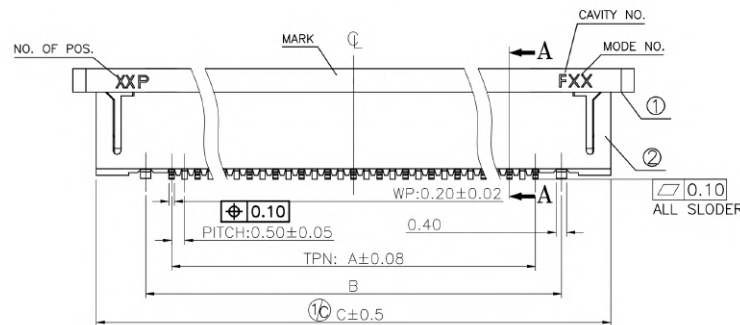
2

REV.

C



SECTION A-A;SCALE:1:1



P.C.B LAYOUT A TYPE (REFERENCE) TOL:±0.05

APPLICABLE FFC RECOMMENDED DIM.
THICKNESS:0.30±0.03

REV.	ECR/ECN No.	DESCRIPTION	DRAWN/DATE	CHECKED/DATE	APPROVED/DATE
C	/	Update the drawing	May 2020-08-07	Rain 2020-08-07	Leo.Liu 2020-08-07
D	/	Add specification	May 2021-06-28	SH.Chen 2021-06-28	Rain.Han 2021-06-28

NO.	COMPONENTS	MATERIALS	SPECIFICATION:FINISH/COLOR	QTY.
1	SLIDER	GLASS FILLED PA9T, UL94V-0	BLACK	1
2	HOUSING	GLASS FILLED LCP, UL94V-0	NATURAL	1
3	ANCHOR-PLATE	BRASS, T=0.40mm	SURFACE PLATING:2~5 um Sn UNDER PLATING:1~3 um Ni	2
4	CONTACT	PHOSPHOR BRONZE, T=0.20mm	SURFACE PLATING:SEE "NOTE" UNDER PLATING:1~3 um Ni	N
5	MYLAR	T=0.10mm 耐高温	YELLOW	1

NOTE:

- 1.ALL MATERIAL MUST BE COMPLY WITH SS-00259/RoHS.
- 2."▽" MARK IS IMPORTANT DIMENSIONS
- 3."▽" MARK IS CPK AND X-R DIMENSION
- 4.PART NO. LEGEND:

HRS-F31Z**A**1-110**

- NO. OF POSITIONS
- 7H:PHOSPHOR BRONZE
0.05um MIN Au(Au Area)
- 7A:PHOSPHOR BRONZE
MATTER TIN
- ⑩AF:PHOSPHOR BRONZE
0.75um MIN Au(Au Area)
- 1A:LCP NATURAL
- FA:LCP NATURAL
- 1Z:WITH MYLAR(A TYPE)
- 1W:NO MYLAR(A TYPE)

DIMENSION LIST:

NO. OF POS.	A	B	C	D	E	NO. OF POS.	A	B	C	D	E
4	1.50	3.50	7.30	9.10	2.60	17	8.00	10.00	13.80	15.60	9.10
5	2.00	4.00	7.80	9.60	3.10	18	8.50	10.50	14.30	16.10	9.60
6	2.50	4.50	8.30	10.10	3.60	19	9.00	11.00	14.80	16.60	10.10
7	3.00	5.00	8.80	10.60	4.10	20	9.50	11.50	15.30	17.10	10.60
8	3.50	5.50	9.30	11.10	4.60	21	10.00	12.00	15.80	17.60	11.10
9	4.00	6.00	9.80	11.60	5.10	22	10.50	12.50	16.30	18.10	11.60
10	4.50	6.50	10.30	12.10	5.60	23	11.00	13.00	16.80	18.60	12.10
11	5.00	7.00	10.80	12.60	6.10	24	11.50	13.50	17.30	19.10	12.60
12	5.50	7.50	11.30	13.10	6.60	25	12.00	14.00	17.80	19.60	13.10
13	6.00	8.00	11.80	13.60	7.10	26	12.50	14.50	18.30	20.10	13.60
14	6.50	8.50	12.30	14.10	7.60	27	13.00	15.00	18.80	20.60	14.10
15	7.00	9.00	12.80	14.60	8.10	28	13.50	15.50	19.30	21.10	14.60
16	7.50	9.50	13.30	15.10	8.60	29	14.00	16.00	19.80	21.60	15.10

UNLESS OTHERWISE SPECIFIED TOLERANCES				ANGLE OF PROJECTION	
X.	±0.30	X. *	± 5'		DOC TYP Customer Drw
X.X	±0.25	X.X *	± 4'		
X.XX	±0.20	X.XX *	± 3'		
X.XXX	±0.15	X.XXX *	± 2'		
LINEAR DIMS		ANGLES DIMS		DRAWN DATE May 2021-06-28	
DWG NO.: A-S0136				DESIGN DATE May 2021-06-28	
MATERIAL		SEE NOTES		CHECKED DATE SH.Chen 2021-06-28	
FINISHED		SEE NOTES		APPROVED DATE Rain.Han 2021-06-28	

Horus Int. Electronics. Co., LTD.
HorusTech Electronics. Co., LTD.

TITLE:
Assembly Drawing For 0.50mm pitch 4~29PIN
VERTICAL SMT A TYPE,SLIDER SERIES

PART NUMBER: HRS-F31Z-A**1-110**
HRS-F31W-A**1-110**

SCALE 4:1 UNIT : mm SHEET 1 OF 2

1

3

4

- | | | | | |
|---|--|-----------|--------------|------|
| TITLE: | | | | |
| Assembly Drawing For 0.50mm pitch 4-29PIN | | | | |
| VERTICAL SMT A TYPE,SLIDER SERIES | | | | |
| SIZE | PART NUMBER: | | | REV. |
| A4 | HRS-F31Z-*A**1-110**
HRS-F31W-*A**1-110** | | | D |
| SCALE | 1:1 | UNIT : mm | SHEET 2 OF 2 | |

1. 适用范围 Scope:

此作业规范适用于: 0.5/1.0 PITCH FPC ZIF 立式抽屉式系列

This product specifications is applied for: 0.5/1.0 PITCH FPC ZIF vertical draw-out type series

与 FPC/FFC 连接方式 Connected to the FPC/FFC : ZIF

FPC/FFC 适合厚度 FPC/FFC is suitable for thickness : 0.30±0.03mm

2. 关联规格 Related specifications:

EIA-364 : 电子连接器及接插件测试程序 Electronic connectors and connector test procedure

UL STD-94 : 关于塑材设备零配件及器材阻燃性测试规范 On the plastic material and equipment spare parts and equipment flame retardancy test specification

3. 构造 尺寸 材料 Configurations dimensions and materials :

参见结构图 Reference the drawing.

序号 No.	部 位 Position	原材料供应商 material suppliers	材料名/Type 名 Materials	防火等级 FLAME CLASS	UL 编号 FILE NO.
1	主体 (HOUSING)	宝理 POLYPLASTICS CO., LTD	LCP Liquid crystal polymer E473i (自然色 Natural)	V-0	E106764
2	推杆 (ACTUATOR)	可乐丽 KURARAY CO., LTD	Polyamide 9T GN2450 (黑色 Black)	V-0	E90350

4. 标准状态:

4.1 额定电压 Rating voltage: AC/DC 50V

4.2 额定电流 Rating current: 0.5A

4.3 温湿度范围 Temperature and humidity range

4.3.1 使用温度范围 operation temperature: -40℃~+105℃;

4.3.2 储存温度范围 storage temperature: -40℃~+105℃;

4.3.3 开封使用温度范围 Kaifeng temperature range: +5℃~+35℃;

开封使用湿度 Kaifeng Humidity 60%RH MAX.;

4.3.4 保存湿度范围: 相对湿度 45~80%RH; Keep humidity range: Relative humidity 45~80%RH;

5. 性能 Performance

5.1 构造 Structure

序号 NO.	项 目 Item	测试方法 Test conditions	规格要求 Specifications
1	外观 Appearance	目视, 寸法测量 Visual, Method of measurement	符合图面要求 Conform to the requirements of the drawings

5.2 电气性能 Electrical Performance

序号 NO.	项 目 Item	测试方法 Test conditions	规格要求 Specifications
1	接触阻抗 Contact Resistance	适配 FFC 标准线, 开放电压: 20mV 以下, 短路电流: 10mA 以下 Mate applicable FPC, measure by dry circuit, 20mV MAXIMUM, 10mA MAXIMUM	30mΩ Max.
2	绝缘阻抗 Insulation Resistance	相邻端子间 DC 500V, 1 分钟。 DC 500V between adjacent terminals, 1 minutes	500MΩ Min.
3	耐电压 Dielectric withstanding voltage	相邻端子间 AC 500V, 感度电流 2mA, 1 分钟。 AC 500V between adjacent terminals, sensitivity of current 2mA, 1 minutes	无击穿, 无短路 No Breakdown.
4	温度上升 Temperature rise	端子在额定电压・电流下工作时测量端子上升的温度 The rising temperature measurement terminal terminal at rated current under.	30℃ max

本制品不含 SS-00259 和 ROHS 禁止使用的环境物质

This product does not contain SS-00259 and ROHS banned the use of environmental substances

制 品 仕 样 书 Product specification	Part name	0.5/1.0 PITCH FPC ZIF vertical draw-out type series (立式抽屉式系列)			
Horus Int. Electronics. Co., LTD. Horustech Electronics. Co., LTD.	Part No.	HRS-F336-1A7*1-110** HRS-F314-1A7*1-110** HRS-F31A-1A7*1-110** HRS-F31W-1A7*1-110** HRS-F31Z-1A7*1-110** HRS-F31X-1A7*1-110** HRS-F31Y-1A7*1-110** HRS-F32A-1A7*1-110** HRS-F32U-1A7*1-110**	HRS-F536-1A7*1-110** HRS-F514-1A7*1-110** HRS-F51A-1A7*1-110** HRS-F51W-1A7*1-110** HRS-F51Z-1Z7*1-110** HRS-F51X-1A7*1-110** HRS-F51Y-1A7*1-110** HRS-F52A-1A7*1-110**	1/8	
Document No.: IS.EQC.012	Date: 2016/04/05	Rev.: D	Written by: May	Checked by: Rain	Approved by: Hongkui.Liu

5.3 机械性能 Mechanical performance

序号 NO.	项 目 Item	测试方法 Test conditions	规格要求 Specifications
1	FFC/FPC 保持力 Retention Force	FFC 插入 FPC 连接品后, 以 25~100mm/分匀速垂直拔出, 此动作重复三次后, 第四次才作测量资料的记录. FFC insert the FPC connection with a 25~100mm/ product, uniform vertical pull, this action is repeated three times, fourth times for measurement data records.	见 “FFC/FPC 保持力” SEE “FFC/FPC Retention Force”
2	固定片保持力 Anchor-Plate Retention Force	以 25~100mm/分匀速垂直拔出 Vertical pull out at a constant speed to 25 ~ 100 mm/min	400gf/terminal Min.
3	推杆纵向拉断力 Pulling strength	将推杆组装成品后固定于治具上, 两边同时从胶芯中匀速垂直拉出直至断裂并记录数据. 速度 25-100mm/分 Fixed on the fixture, after finished product will push rod ends at the same time from the main body to a 25-100 mm/min speed pulled up until the side hook fracture and record data.	1.7Kgf Min.
4	推杆横向拉断力	垂直推杆勾于仪器上用力向下拉使侧钩断裂, 并记录数据. 速度 25-100mm/分。 Push rod side hook hook on the instrument, the vertical force at 25 to 100 mm/min speed down to make the fracture and record data	0.75Kgf Min.
5	推杆垂直拉断力	舌片固定测试仪器上以 25-100mm/分的速度垂直向上拉出, 直至断裂, 并记录数据 Tongue fixed test instrument at a rate of 25-100 - mm/min vertical pull out, until the break, and record the data	1.7Kgf Min
6	推杆强度	将推杆平放于治具上, 治具对准推杆中部, 以 25-100mm/分的速度下压直至断裂 The putter flat on fixture, fixture on the push rod in central, down at the rate of 25-100 - mm/min until the fracture	1.7Kgf Min
7	端子保持力 Terminal Retention Force	将端子 25~100mm/分匀速垂直从胶芯槽内拔出 Apply axial pull out force on the terminal assembled in the housing at the speed rate of 25~100mm per minute.	100gf/terminal Min.
8	SLIDER 动作力 Operating Force	将 FFC/FPC 插入主体后, 测量 SLIDER 插入和拔出的作用力 After insert the FFC main body, the SLIDER insert and pull out force measurement	见 “SLIDER 作用力” “FFC/FPC Operating Force”
9	侧耳强度 Give ear strength	垂直主体侧耳, 使其接合线外受力, 直至破裂. Give ear, embody the vertical joint line outside force, until the break	0.8kgf min
10	插拔耐久性 Durability	以下动作进行 30 次巡回: FPC 插入、SLIDER 插入、SLIDER 拔出、FPC 拔出 The following action 30 Tour FPC insert, Slider insert, Slider withdraw, FPC withdraw	接触阻抗 Contact Resistance 50mΩ Max. 无异常 No abnormal appearance

本制品不含 SS-00259 和 ROHS 禁止使用的环境物质

This product does not contain SS-00259 and ROHS banned the use of environmental substances

制 品 仕 样 书 Product specification		Part name	0.5/1.0 PITCH FPC ZIF vertical draw-out type series (立式抽屉式系列)		
Horus Int. Electronics. Co., LTD. Horustech Electronics. Co., LTD.		Part No.	HRS-F336-1A7*1-110** HRS-F536-1A7*1-110** HRS-F314-1A7*1-110** HRS-F514-1A7*1-110** HRS-F31A-1A7*1-110** HRS-F51A-1A7*1-110** HRS-F31W-1A7*1-110** HRS-F51W-1A7*1-110** HRS-F31Z-1A7*1-110** HRS-F51Z-1Z7*1-110** HRS-F31X-1A7*1-110** HRS-F51X-1A7*1-110** HRS-F31Y-1A7*1-110** HRS-F51Y-1A7*1-110** HRS-F32A-1A7*1-110** HRS-F52A-1A7*1-110** HRS-F32U-1A7*1-110**		2/8
Document No.：IS.EQC.012	Date：2016/04/05	Rev.：D	Written by： May	Checked by： Rain	Approved by： Hongkui. Liu

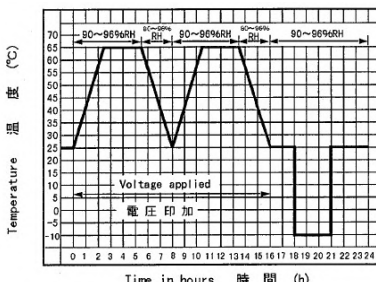
5.4 环境性能和其它 Environmental Performance and Others

序号 NO.	项 目 Item	测试方法 Test conditions	规格要求 Specifications
1	耐振性 Vibration	配合合适的FPC，按以下条件，X、Y、Z方向各2小时，共6小时在测试过程中通过直流1mA，振幅1.5mm，频率10-55-10Hz/分。 Mate applicable FPC , according to the following conditions, X, Z, Y direction of each 2 hours, a total of 6 hours passing DC 1mA during the test. Amplitude : 1.5mm P-P Frequency : 10-55-10 Hz Shall be traversed in 1 minute.	接触阻抗初始值2倍以下 The initial value of 2 times the contact impedance
2	耐冲击性 Shock	配合合适的FPC，按以下条件，X,Y,Z方向各11ms，各3回，共18回，在测试过程中通过直流1mA，加速度490m/s ² ， Mate applicable FPC ,according to the following conditions, X, Z, Y direction of the 11ms, the 3 times, a total of 18 times during the test process by DC 1mA. Test pulse : Half Sine Peak value : 490m/s ² {50G} Duration : 11 milliseconds	瞬断1μs以内; Discontinuity: 1μs Max. 外观无异常 No abnormal appearance
3	耐寒性 Cold Resistance	配合合适的FPC，-40±3℃中放置时间96H后取出，1~2小时常温放置后进行测试。 Mate applicable FPC ,after -40±3℃, the time of 96H was removed, and the test was conducted at room temperature for 1~2 hours.	1. 接触阻抗: 30mΩ Max. 2. 绝缘阻抗: 100 MΩ Min. 3. 耐电压: 无击穿，短路 4. 外观: 无异常 1. Contact Resistance: 30mΩ Max. 2. Insulation Resistance : 100 MΩ Min. 3. Dielectric withstanding voltage: No Breakdown. 4. No abnormal appearance
4	耐热性 Heat Resistance	配合合适的FPC，105±2℃中放置时间96H后取出，1~2小时常温放置后进行测试。 Mate applicable FPC ,after 105±2℃, the time of 96H was removed, and the test was conducted at room temperature for 1~2 hours.	
5	耐湿性 Humidity	配合合适的FPC，40±3℃、相对湿度90~95%中放置时间96H后取出，1~2小时常温放置后进行测试。 Mate applicable FPC ,40±3℃, relative humidity 90~95% in the time of 96H after removal, 1~2 hours after room temperature for testing.	
6	盐雾试验 Salt Spray	配合合适的FPC，温度35±2℃；盐水比重5±1%喷雾试验，试验后常温水洗干燥后进行测试。 A: 镀金 48h B: 镀锡 24h C: 单pin端子 48h Mate applicable FPC, the temperature of 35±2℃, the proportion of salt water was 5±1% the test was carried out at room temperature after washing and drying. A: gold plating 48H B: tin 24h C: single pin terminal 48H	

本制品不含 SS-00259 和 ROHS 禁止使用的环境物质

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制 品 仕 样 书 Product specification		Part name	0.5/1.0 PITCH FPC ZIF vertical draw-out type series(立式抽屉式系列)			
Horus Int. Electronics. Co., LTD. Horustech Electronics. Co., LTD.		Part No.	HRS-F336-1A7*1-110** HRS-F314-1A7*1-110** HRS-F31A-1A7*1-110** HRS-F31W-1A7*1-110** HRS-F31Z-1A7*1-110** HRS-F31X-1A7*1-110** HRS-F31Y-1A7*1-110** HRS-F32A-1A7*1-110** HRS-F32U-1A7*1-110**	HRS-F536-1A7*1-110** HRS-F514-1A7*1-110** HRS-F51A-1A7*1-110** HRS-F51W-1A7*1-110** HRS-F51Z-1Z7*1-110** HRS-F51X-1A7*1-110** HRS-F51Y-1A7*1-110** HRS-F52A-1A7*1-110**	3/8	
Document No.：IS.EQC.012	Date: 2016/04/05	Rev.：D	Written by: May	Checked by: Rain	Approved by: Hongkui. Liu	

序号 NO.	项 目 Item	测试方法 Test conditions	规格要求 Specifications												
7	冷热冲击 Thermal Shock	配合合适的 FPC, $-55\pm 3^{\circ}\text{C}$; $85\pm 2^{\circ}\text{C}$ 的温度下各放置 30 分钟, 共进行 5 次循环 Mate applicable FPC, $-55\pm 3^{\circ}\text{C}$, $85\pm 2^{\circ}\text{C}$, 30 minutes, 5 cycles were performed. 1: -55°C 30 minutes 2: $+85^{\circ}\text{C}$ 30 minutes	1. 接触阻抗: $30\text{m}\Omega$ Max. 2. 绝缘阻抗: $100\text{M}\Omega$ Min. 3. 耐电压: 无击穿, 短路 4. 外观: 无异常												
8	耐湿性 (温湿度循环) Humidity (Temperature and Humidity Cycle)	配合合适的 FPC, 依照下面曲线完成 5 次循环试验。 Mate applicable FPC, complete the 5 cycle test according to the curve below. 	1. Contact Resistance: $30\text{m}\Omega$ Max. 4. Insulation Resistance : $100\text{M}\Omega$ Min. 5. Dielectric withstanding voltage: No Breakdown. 4. No abnormal appearance												
9	沾锡性 Solderability	端子焊脚和固定片前端 0.3mm, 沾锡温度 $245\pm 3^{\circ}\text{C}$ (Sn: Lead Free); 时间 $3\pm 0.5\text{S}$ Terminal welding feet and fitting nail front 0.3mm, soldering temperature $245\pm 5^{\circ}\text{C}$ (Sn: Lead Free); time $3\pm 0.5\text{S}$	吃锡饱满, 在 95% 以上 95% of immersed area must show no voids, pin holes												
10	焊锡耐热性 Resistance to Soldering Heat	端子焊脚和固定片前端 0.3mm, 烙铁温度 $350\pm 10^{\circ}\text{C}$ (Sn: Lead Free); 时间 $10+1/-0\text{S}$ Terminal welding feet and fitting nail front 0.3mm, soldering Iron temperature $350\pm 10^{\circ}\text{C}$ (Sn: Lead Free), time: $10+1/-0\text{S}$	满足电气性能 Meet the electrical properties 共面度 0.10mm Max. 外观无异常, Coplanar degree 0.10mm Max. No abnormal appearance.												
11	Reflow	预备加热时间 Pre-heating time: 150°C 60~120s。 焊锡温度时间 Soldering Temperature Time: 250°C $30\pm 1\text{s}$ 。													
12	耐硫化性 (镀金品) Sulfidation resistance (Gold)	满足三种混合气体的试验的要求 Meet the requirements of the test of three kinds of mixed gas <table><tr><td>H₂S</td><td>NO₂</td><td>SO₂</td><td>Temperature</td><td>Humidity</td><td>Time</td></tr><tr><td>0.5ppm</td><td>1.0ppm</td><td>1.0ppm</td><td>35℃</td><td>70%RH</td><td>72H</td></tr></table>	H ₂ S	NO ₂	SO ₂	Temperature	Humidity	Time	0.5ppm	1.0ppm	1.0ppm	35℃	70%RH	72H	接触阻抗初始值 2 倍以下 The initial value of 2 times the contact impedance 触点附近无明显腐蚀。 Nearby contact no significant corrosion
H ₂ S	NO ₂	SO ₂	Temperature	Humidity	Time										
0.5ppm	1.0ppm	1.0ppm	35℃	70%RH	72H										
14	耐溶剂 Solvent	将产品放入异丙基酒精容器中 90 秒后取出 。Product into the isopropyl alcohol container removed after 90 seconds.	满足电气性能, 外观无异常。 Meet electrical performance No abnormal appearance.												

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制品仕様书 Product specification	Part name	0.5/1.0 PITCH FPC ZIF vertical draw-out type series (立式抽屉式系列)			
Horus Int. Electronics. Co., LTD. HorusTech Electronics. Co., LTD.	Part No.	HRS-F336-1A7*1-110** HRS-F314-1A7*1-110** HRS-F31A-1A7*1-110** HRS-F31W-1A7*1-110** HRS-F31Z-1A7*1-110** HRS-F31X-1A7*1-110** HRS-F31Y-1A7*1-110** HRS-F32A-1A7*1-110** HRS-F32U-1A7*1-110**	HRS-F536-1A7*1-110** HRS-F514-1A7*1-110** HRS-F51A-1A7*1-110** HRS-F51W-1A7*1-110** HRS-F51Z-1Z7*1-110** HRS-F51X-1A7*1-110** HRS-F51Y-1A7*1-110** HRS-F52A-1A7*1-110**	4/8	
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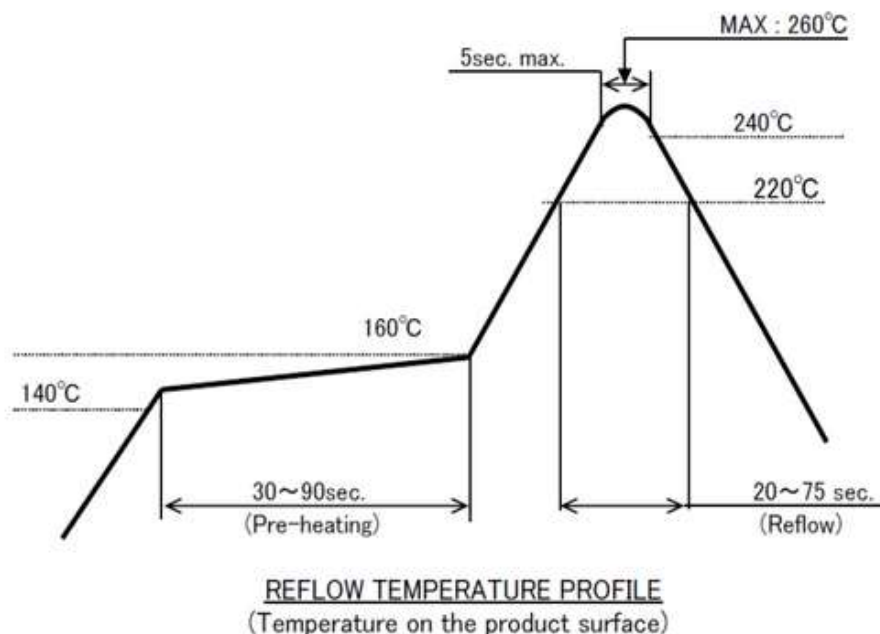
6. 包装 Packing

参见捆包图。See the drawing

7. 修改内容 Change content

版本 Rev.	改正日期 Modify date	改正内容 Modifications	Written by	Checked by
A	2012/08/07	New	贺恩海	叶正闲
B	2014/11/10	新增 55pin 力值	王梅芳	韩 奇
C	2015/12.30	修订内容，更新为中英文对照	王梅芳	韩 奇
D	2016/4/5	修订内容，中文一致	王梅芳	

Reflow Condition:



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制 品 仕 样 书 Product specification	Part name	0.5/1.0 PITCH FPC ZIF vertical draw-out type series(立式抽屉式系列)		
Horus Int. Electronics. Co., LTD. HorusTech Electronics. Co., LTD.	Part No.	HRS-F336-1A7*1-110** HRS-F314-1A7*1-110** HRS-F31A-1A7*1-110** HRS-F31W-1A7*1-110** HRS-F31Z-1A7*1-110** HRS-F31X-1A7*1-110** HRS-F31Y-1A7*1-110** HRS-F32A-1A7*1-110** HRS-F32U-1A7*1-110**	HRS-F536-1A7*1-110** HRS-F514-1A7*1-110** HRS-F51A-1A7*1-110** HRS-F51W-1A7*1-110** HRS-F51Z-1Z7*1-110** HRS-F51X-1A7*1-110** HRS-F51Y-1A7*1-110** HRS-F52A-1A7*1-110**	5/8
Document No.: IS.EQC.012	Date: 2016/04/05	Rev.: D	Written by: May	Checked by: Rain Approved by: Hongkui.Liu

SLIDER 作用力 Slider Force:

极数 No. of CKT.	单 位 UNIT	插入力（最大值） INSERTION FORCE (MAXIMUM)			拔出力（最大值） WITHDRAWAL FORCE (MAXIMUM)		
		初回 1st	6 回目 6th	30 回目 30th	初回 1st	6 回目 6th	30 回目 30th
4	N { kgf }	28.4 { 2.9 }	26.4 { 2.7 }	26.4 { 2.9 }	36.2 { 3.8 }	35.2 { 3.4 }	35.2 { 3.4 }
5	N { kgf }	29.3 { 3.0 }	27.4 { 2.8 }	27.4 { 2.9 }	37.2 { 3.9 }	35.2 { 3.5 }	35.2 { 3.5 }
6	N { kgf }	30.3 { 3.1 }	28.4 { 2.9 }	28.4 { 2.9 }	39.2 { 4.0 }	35.2 { 3.6 }	35.2 { 3.6 }
8	N { kgf }	32.3 { 3.3 }	30.3 { 3.1 }	30.3 { 3.1 }	41.1 { 4.2 }	37.2 { 3.8 }	37.2 { 3.8 }
9	N { kgf }	33.3 { 3.4 }	31.3 { 3.2 }	31.3 { 3.2 }	42.1 { 4.3 }	38.2 { 3.9 }	38.2 { 3.9 }
10	N { kgf }	34.3 { 3.5 }	32.3 { 3.3 }	32.3 { 3.3 }	43.1 { 4.4 }	39.2 { 4.0 }	39.2 { 4.0 }
12	N { kgf }	36.2 { 3.7 }	34.3 { 3.5 }	34.3 { 3.5 }	45.0 { 4.6 }	41.1 { 4.2 }	41.1 { 4.2 }
13	N { kgf }	37.2 { 3.8 }	35.2 { 3.6 }	35.2 { 3.6 }	46.1 { 4.7 }	42.2 { 4.3 }	42.2 { 4.3 }
14	N { kgf }	38.2 { 3.9 }	36.2 { 3.7 }	36.2 { 3.7 }	47.0 { 4.8 }	43.1 { 4.4 }	43.1 { 4.4 }
15	N { kgf }	39.2 { 4.0 }	37.2 { 3.8 }	37.2 { 3.8 }	48.0 { 4.9 }	44.1 { 4.5 }	44.1 { 4.5 }
16	N { kgf }	40.1 { 4.1 }	38.2 { 3.9 }	38.2 { 3.9 }	49.0 { 5.0 }	45.0 { 4.6 }	45.0 { 4.6 }
17	N { kgf }	41.1 { 4.2 }	39.2 { 4.0 }	39.2 { 4.0 }	49.9 { 5.1 }	46.0 { 4.7 }	46.0 { 4.7 }
18	N { kgf }	42.1 { 4.3 }	40.1 { 4.1 }	40.1 { 4.1 }	50.9 { 5.2 }	47.0 { 4.8 }	47.0 { 4.8 }
20	N { kgf }	44.1 { 4.5 }	42.1 { 4.3 }	42.1 { 4.3 }	52.9 { 5.4 }	49.0 { 5.0 }	49.0 { 5.0 }
21	N { kgf }	45.0 { 4.6 }	43.1 { 4.4 }	43.1 { 4.4 }	53.9 { 5.5 }	49.9 { 5.1 }	49.9 { 5.1 }
22	N { kgf }	46.0 { 4.7 }	44.1 { 4.5 }	44.1 { 4.5 }	54.8 { 5.6 }	50.9 { 5.2 }	50.9 { 5.2 }
23	N { kgf }	47.0 { 4.8 }	45.0 { 4.6 }	45.0 { 4.6 }	55.8 { 5.7 }	51.9 { 5.3 }	51.9 { 5.3 }

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制 品 仕 样 书 Product specification		Part name	0.5/1.0 PITCH FPC ZIF vertical draw-out type series(立式抽屉式系列)		
Horus Int. Electronics. Co., LTD. Horustech Electronics. Co., LTD.		Part No.	HRS-F336-1A7*1-110** HRS-F536-1A7*1-110** HRS-F314-1A7*1-110** HRS-F514-1A7*1-110** HRS-F31A-1A7*1-110** HRS-F51A-1A7*1-110** HRS-F31W-1A7*1-110** HRS-F51W-1A7*1-110** HRS-F31Z-1A7*1-110** HRS-F51Z-1Z7*1-110** HRS-F31X-1A7*1-110** HRS-F51X-1A7*1-110** HRS-F31Y-1A7*1-110** HRS-F51Y-1A7*1-110** HRS-F32A-1A7*1-110** HRS-F52A-1A7*1-110** HRS-F32U-1A7*1-110**		6/8
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极数 No. of CKT.	单 位 UNIT	插入力（最大值） INSERTION FOR CE (MAXIMUM)			拔出力（最大值） WITHDRAWAL FORCE (MAXIMUM)		
		初回 1st	6 回目 6th	30 回目 30th	初回 1st	6 回目 6th	30 回目 30th
24	N { kgf }	48.0 { 4.9 }	46.0 { 4.7 }	46.0 { 4.7 }	56.8 { 5.8 }	52.9 { 5.4 }	52.9 { 5.4 }
25	N { kgf }	49.0 { 5.0 }	47.0 { 4.8 }	47.0 { 4.8 }	57.8 { 5.9 }	53.9 { 5.5 }	53.9 { 5.5 }
26	N { kgf }	49.9 { 5.1 }	48.0 { 4.9 }	48.0 { 4.9 }	58.8 { 6.0 }	54.8 { 5.6 }	54.8 { 5.6 }
27	N { kgf }	50.9 { 5.2 }	49.0 { 5.0 }	49.0 { 5.0 }	59.7 { 6.1 }	55.8 { 5.7 }	55.8 { 5.7 }
28	N { kgf }	51.9 { 5.3 }	49.9 { 5.1 }	49.9 { 5.1 }	60.7 { 6.2 }	56.8 { 5.8 }	56.8 { 5.8 }
30	N { kgf }	53.9 { 5.5 }	51.9 { 5.3 }	51.9 { 5.3 }	62.7 { 6.4 }	58.8 { 6.0 }	58.8 { 6.0 }
32	N { kgf }	55.8 { 5.7 }	53.9 { 5.5 }	53.9 { 5.5 }	63.6 { 6.6 }	60.7 { 6.2 }	60.7 { 6.2 }
33	N { kgf }	56.8 { 5.8 }	54.8 { 5.6 }	54.8 { 5.6 }	64.6 { 6.7 }	61.7 { 6.3 }	61.7 { 6.3 }
34	N { kgf }	57.8 { 5.9 }	55.9 { 5.7 }	55.9 { 5.7 }	65.6 { 6.8 }	62.7 { 6.4 }	62.7 { 6.4 }
36	N { kgf }	59.7 { 6.1 }	57.8 { 5.9 }	57.8 { 5.9 }	68.6 { 7.0 }	64.6 { 6.6 }	64.6 { 6.6 }
40	N { kgf }	63.7 { 6.5 }	61.7 { 6.3 }	61.7 { 6.3 }	72.5 { 7.4 }	68.6 { 7.0 }	68.6 { 7.0 }
42	N { kgf }	65.7 { 6.7 }	63.7 { 6.5 }	63.7 { 6.5 }	74.5 { 7.6 }	70.6 { 7.2 }	70.6 { 7.2 }
43	N { kgf }	66.7 { 6.8 }	64.7 { 6.6 }	64.7 { 6.6 }	75.5 { 7.7 }	71.6 { 7.3 }	71.6 { 7.3 }
45	N { kgf }	67.6 { 6.9 }	65.7 { 6.7 }	65.7 { 6.7 }	77.5 { 7.9 }	73.5 { 7.5 }	73.5 { 7.5 }
50	N { kgf }	72.5 { 7.4 }	70.6 { 7.2 }	70.6 { 7.2 }	81.4 { 8.3 }	77.5 { 7.9 }	77.5 { 7.9 }
53	N { kgf }	75.5 { 7.7 }	73.5 { 7.5 }	73.5 { 7.5 }	84.3 { 8.6 }	80.4 { 8.2 }	80.4 { 8.2 }
55	N { kgf }	77.4 { 7.9 }	75.5 { 7.7 }	75.5 { 7.7 }	85.3 { 8.7 }	81.3 { 8.3 }	81.3 { 8.3 }
56	N { kgf }	78.4 { 8.0 }	76.5 { 7.8 }	76.5 { 7.8 }	87.3 { 8.9 }	83.3 { 8.5 }	83.3 { 8.5 }
60	N { kgf }	82.4 { 8.4 }	80.4 { 8.2 }	80.4 { 8.2 }	91.2 { 9.3 }	86.3 { 8.8 }	86.3 { 8.8 }

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制 品 仕 样 书 Product specification		Part name	0.5/1.0 PITCH FPC ZIF vertical draw-out type series (立式抽屉式系列)		
Horus Int. Electronics. Co., LTD. Horus Int. Electronics. Co., LTD.		Part No.	7/8		
			HRS-F336-1A7*1-110** HRS-F536-1A7*1-110** HRS-F314-1A7*1-110** HRS-F514-1A7*1-110** HRS-F31A-1A7*1-110** HRS-F51A-1A7*1-110** HRS-F31W-1A7*1-110** HRS-F51W-1A7*1-110** HRS-F31Z-1A7*1-110** HRS-F51Z-1Z7*1-110** HRS-F31X-1A7*1-110** HRS-F51X-1A7*1-110** HRS-F31Y-1A7*1-110** HRS-F51Y-1A7*1-110** HRS-F32A-1A7*1-110** HRS-F52A-1A7*1-110** HRS-F32U-1A7*1-110**		
Document No. : IS.EQC.012	Date: 2016/04/05	Rev. : D	Written by: May	Checked by: Rain	Approved by: Hongkui. Liu

FFC/FPC 保持力 FFC/FPC Retention Force:

极数 No. of CKT.	单 位 UNIT	拔出力 (最小值) WITHDRAWALFORCE (MINIMUM)		极数 No. of CKT.	单 位 UNIT	拔出力 (最小值) WITHDRAWALFORCE (MINIMUM)	
		初回 1st	30 回目 20th			初回 1st	30 回目 20th
4	N { kgf }	1.0 { 0.10 }	0.6 { 0.06 }	26	N { kgf }	9.7 { 0.99 }	8.0 { 0.82 }
5	N { kgf }	1.3 { 0.13 }	0.8 { 0.08 }	27	N { kgf }	10.1 { 1.03 }	8.4 { 0.85 }
6	N { kgf }	1.7 { 0.17 }	1.0 { 0.10 }	28	N { kgf }	10.5 { 1.07 }	8.7 { 0.89 }
8	N { kgf }	2.5 { 0.25 }	1.7 { 0.17 }	30	N { kgf }	11.3 { 1.15 }	9.92 { 0.95 }
9	N { kgf }	2.9 { 0.29 }	2.1 { 0.21 }	32	N { kgf }	12.1 { 1.23 }	10.1 { 1.03 }
10	N { kgf }	3.3 { 0.33 }	2.4 { 0.24 }	33	N { kgf }	12.5 { 1.27 }	10.4 { 1.06 }
12	N { kgf }	4.2 { 0.42 }	3.2 { 0.32 }	34	N { kgf }	12.9 { 1.31 }	10.7 { 1.08 }
13	N { kgf }	4.6 { 0.46 }	3.5 { 0.35 }	36	N { kgf }	13.8 { 1.40 }	11.5 { 1.17 }
14	N { kgf }	4.9 { 0.50 }	3.9 { 0.39 }	40	N { kgf }	15.3 { 1.56 }	12.9 { 1.32 }
15	N { kgf }	5.3 { 0.54 }	4.2 { 0.42 }	42	N { kgf }	15.4 { 1.58 }	14.7 { 1.50 }
16	N { kgf }	5.7 { 0.58 }	4.6 { 0.46 }	43	N { kgf }	15.8 { 1.61 }	15.1 { 1.50 }
17	N { kgf }	6.1 { 0.62 }	4.8 { 0.49 }	45	N { kgf }	16.5 { 1.69 }	15.8 { 1.54 }
18	N { kgf }	6.5 { 0.66 }	5.2 { 0.53 }	50	N { kgf }	18.4 { 1.88 }	17.7 { 1.81 }
20	N { kgf }	7.3 { 0.74 }	5.9 { 0.60 }	52	N { kgf }	19.1 { 1.95 }	18.4 { 1.87 }
21	N { kgf }	7.7 { 0.78 }	6.3 { 0.64 }	53	N { kgf }	19.5 { 1.99 }	18.7 { 1.91 }
22	N { kgf }	8.2 { 0.83 }	6.7 { 0.68 }	55	N { kgf }	20.2 { 2.07 }	19.5 { 1.99 }
23	N { kgf }	8.5 { 0.87 }	7.0 { 0.71 }	56	N { kgf }	20.6 { 2.11 }	19.9 { 2.03 }
24	N { kgf }	8.9 { 0.91 }	7.3 { 0.74 }	60	N { kgf }	22.1 { 2.25 }	21.4 { 2.18 }
25	N { kgf }	9.4 { 0.95 }	7.7 { 0.78 }				

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Horus Int. Electronics. Co., LTD. Horustech Electronics. Co., LTD.		Part No.	HRS-F336-1A7*1-110** HRS-F314-1A7*1-110** HRS-F31A-1A7*1-110** HRS-F31W-1A7*1-110** HRS-F31Z-1A7*1-110** HRS-F31X-1A7*1-110** HRS-F31Y-1A7*1-110** HRS-F32A-1A7*1-110** HRS-F32U-1A7*1-110** HRS-F536-1A7*1-110** HRS-F514-1A7*1-110** HRS-F51A-1A7*1-110** HRS-F51W-1A7*1-110** HRS-F51Z-1Z7*1-110** HRS-F51X-1A7*1-110** HRS-F51Y-1A7*1-110** HRS-F52A-1A7*1-110**		
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