



Pan-International

承 認 書
CUSTOMER APPROVAL SHEET

客 戶
CUSTOMER: Foxconn

客 戶 料 號
CUSTOMER PART NO.: 35061CS00-43V-G

品 名
DESCRIPTION: HDMI TO HDMI L=1.8M

樣 品 料 號
SAMPLE PART NO.: SCF2320081

日 期
DATE: 2021.01.11

制 作 栏 PRODUCTION	承 办 PAREPARED	审 核 CHECKEDBY	核 准 APPROVEDBY
	Olga	Mike	Jack

承 认 栏 APPROVAL	承 办 PAREPARED	审 核 CHECKEDBY	核 准 APPROVEDBY

东莞市广宇电线电缆有限公司

Tel:86-769-8550-8845

Fax:86-769-8550-8946

e-mail:kdsung@panintl.com

地址:中国广东省东莞市虎门镇新联管理区凤凰山高科技工业区

ATC

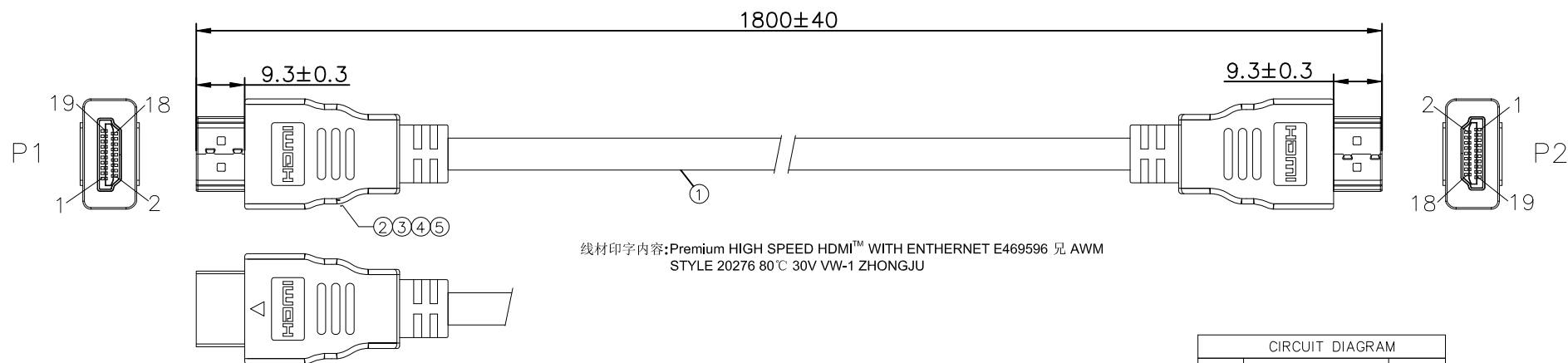


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RoHS 2.0
Compliant

REV.	ECN NO.	DESCRIPTION	DATE	REVISER
01		INITIAL RELEASE	2021/01/11	REBA



线材印字内容: Premium HIGH SPEED HDMI™ WITH ENETHERNET E469596 见 AWM
STYLE 20276 80℃ 30V VW-1 ZHONGJU

Note:

1. 电气测试:

(1) 成品100%电气测试, 不可有短断路, 错位/高压电
气闪烁不良。

(2) 测试电压: AC/300V, DC 300V/0.01SEC

(3) 绝缘阻抗: 20M ohm/Min.

(4) 导通阻抗: 3 ohm/Max.

2. 100%实机测试, 4K 30hz

REMARK:

ALL MATERIALS MEET RoHS

CIRCUIT DIAGRAM				
P1	WIRE COLOR		P2	
1	XX	红	XX	1
3	XX	白	XX	3
2	—	地	—	2
4	XX	绿	XX	4
6	XX	白	XX	6
5	—	地	—	5
7	XX	蓝	XX	7
9	XX	白	XX	9
8	—	地	—	8
10	XX	橙	XX	10
12	XX	白	XX	12
11	—	地	—	11
14	XX	棕	XX	14
19	XX	白	XX	19
17	—	地	—	17
13	—	红	—	13
15	—	白	—	15
16	—	橙	—	16
18	—	黄	—	18
SHELL	—	编织	—	SHELL

⑤	外模料	PVC 45P 黑色料	AR	KG	
④	内模料	PE	AR	KG	
③	铜箔	W8mm 双导铜箔	2	PCS	
②	插头	HDMI 19P A/M 黑胶芯 铁壳镀镍 端子镀G/F+线卡+插头上锡+上下马口铁	2	PCS	
①	线材	UL 20276 (30#*1P+EAM)*5C+30#*4C+AL+E+B (85%AL) PVC 黑 OD6.0mm	1	PCS	
ITEM	MATERIAL P/N	SPECIFICATIONS	QTY	UNIT	SUPPLIER

SAMPLE DESIGN DRAWING



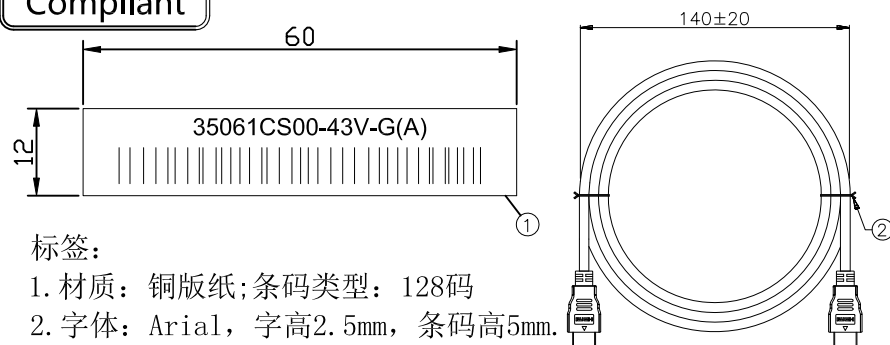
Pan-International Inc.

廣宇科技股份有限公司

TOLERANCE 1~10:±1 11~30:±3 31~200:±5 201~400:±8 >401:±10 ANGLES:2°	Part P/N	SCF2320081		REV.	01	SHEET	1/1	APPROVED	
	TITLE	HDMI A TO A						CHECKED	
	Cust. P/N	35061CS00-43V-G		CUSTOMER					
	PROJECT		SCALE	NONE		UNIT	MM		DRAWN

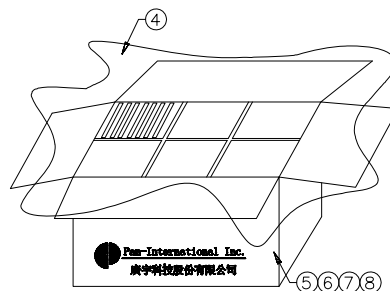
RoHS 2.0
Compliant

REV.	ECN NO.	DESCRIPTION	DATE	REVISER
01		INITIAL RELEASE	2021/01/11	REBA



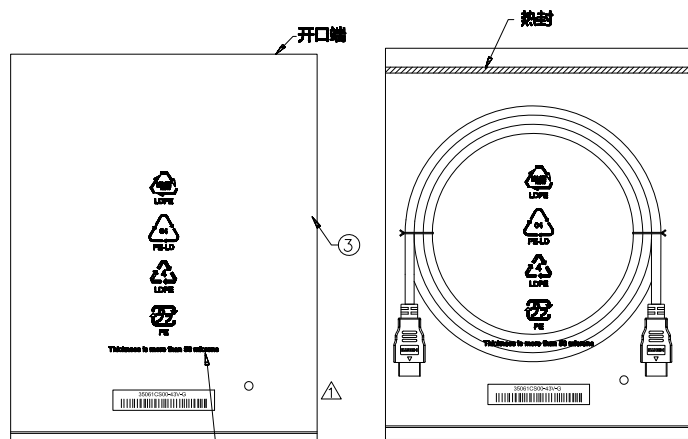
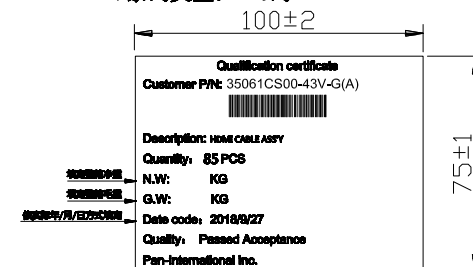
标签:

1. 材质: 铜版纸; 条码类型: 128码
2. 字体: Arial, 字高2.5mm, 条码高5mm.
3. 印字内容: 35061CS00-43V-G(A)
4. 条码扫描内容: 35061CS00-43V-G



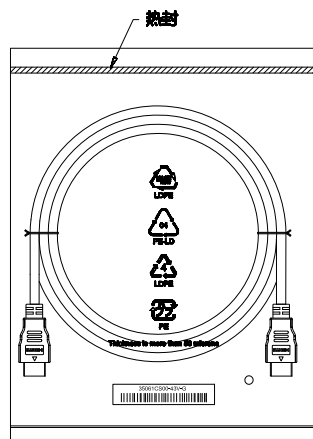
图四

- 图六: 外箱标签
1. 外箱唛头标签100*75mm 白底黑字
条码扫描内容为: 35061CS00-43V-G
(客户料号+版本)
 2. 条码类型: 128码



图二

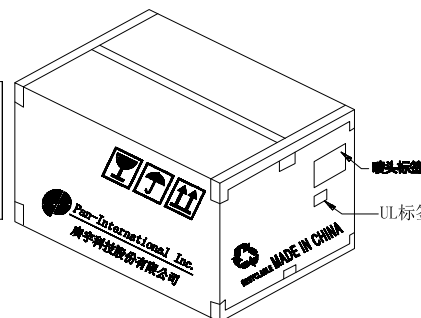
字体和“PE”一样, 字号比“PE”小



图三

侧唛

Pan P/N:
Qty: PCS
GW: KG
NW: KG
QA: KG



图五

包装:

1. 如图一尺寸规格扎线(上五下四圈).
2. 如图二在PE袋上贴1pcs条码标签(贴于环保标志下方中间位置).
3. 如图三将产品pcs装入PE袋中, 然后热封.
4. 如图四装箱: 每箱装85pcs, 分二层放, 装箱时头朝下, 第一层装43pcs, 中间的其中一格放8pcs, 其余每小格放7pcs, 第二层装42pcs, 每小格均放7pcs, 层与层之间用隔板隔开, 每格用十字隔板隔开, 隔板均放在防水袋内, 底部不需放隔板, 完成包装后封箱(如图五).
5. 外箱标签内容(如图六), 粘贴位置(如图五).
6. 侧唛(QTY/N.W/G.W)需用铅笔填写.
7. 出货堆板限高小于1.50m;

ITEM	MATERIAL P/N	SPECIFICATIONS	QTY	UNIT	SUPPLIER
⑧	一刀卡	短刀卡: L330*W138*H5mm, 单抗纸	4/85	PCS	
⑦	二刀卡	长刀卡: L435*W138*H5mm, 单抗纸	2/85	PCS	
⑥	纸箱	纸箱: L445*W343*H300mm, 打钉, K=K, 绿色印刷	1	85	PCS
⑤	隔板	隔板: L435*W330mm, B3B材质	2/85	PCS	
④	防水袋	风琴袋W(600+150*2)*L650*T0.04mm	1/85	PCS	
③	PE袋	PE袋W180*L230*T0.052mm, 印刷4个黑色环保标志+英文, 有透气孔	1	PCS	
②	扎带	黑色迷你带	AR	M	
①	PE袋标签	W12*L60mm 铜版纸条码标签, 白底黑字	1	PCS	

SAMPLE DESIGN DRAWING



Pan-International Inc.

廣宇科技股份有限公司

TOLERANCE	Part P/N	SCF2320081	REV.	01	SHEET	1/1	APPROVED	
1~10:±1 11~30:±3 31~200:±5 201~400:±8 >401:±10 ANGLES:2°	TITLE	HDMI A TO A					CHECKED	
	Cust. P/N	35061CS00-43V-G	CUSTOMER				DRAWN	REBA
	PROJECT	SCALE	NONE	UNIT	MM			

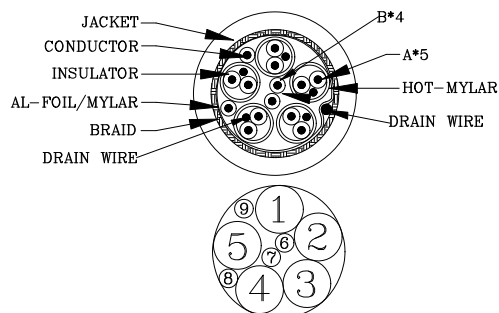
材料 B. O. M

[illegible]

東莞中鉅資訊光電有限公司
DONGGUAN ZHONGJU HI-TECH CO., LTD
廣東省東莞市厚街鎮溪頭村工業區 統一編號: 441900743657564
Industry District, Xi-Tou Village, Hou-Jie Town TEL: 0769-5994660
Dongguan City, Guangdong Province P. R. C. FAX: 0769-5994525

CABLE SPECIFICATION

SPEC No.:	HDMI 2. 0 (1/0.254BA*1PR+EAM)*5+1/0.254BA*4C+AEB(AL) 85%						
Customer		Customer NO.	--	8 Code	--	Sample NO:	
UL File NO.	E469596	UL Style:	UL20276	Date:	2020/6/29	Spec NO.	--
CSA File NO.	--	CSA Style:	--	Edition:	原版本	Operation NO:	--
Structure			Structure A			Structure B	
Conductors 導 體	Structure AWG(構造線規)	AWG	30#(1/0.254±0.008)			30#(1/0.254±0.008)	
	Material (導體材質)	--	Bare Copper			Bare Copper	
	O.D.(絞合外徑)	mm	0.254 Ref			0.254 Ref	
Insulators 絕 緣	Material (絕緣材質)	--	FOAM-SKIN-PE			HD-PE	
	Diameter(芯線線徑)	mm	0.72±0.05			0.50±0.05	
	Average Thickness(平均厚度)	mm	0.233 Ref			0.123 Ref	
	Color(顏色)	--	AS Color Code			AS Color Code	
Layer 內集合	Direction(絞向)	--	Left (Z)			--	
	Diameter(絞合外徑)	mm	1.44			--	
Drain wire 地線	Structure AWG(構造線規)	AWG	30#(1/0.254±0.008)			--	
	Material(導體材質)	--	Tinned Copper			--	
Tape Wrap 內包帶 1	Material(包帶材質)	--	AL-foil/mylar			--	
	Conductive Side(導電面)	--	Inside			--	
	Overlap Rate(重疊率)	%	25 MIN			--	
Tape Wrap 內包帶 2	Material(包帶材質)	--	Hot-Mylar			--	
	Conductive Side(導電面)	--	--			--	
	Overlap Rate(重疊率)	%	25 MIN			--	
Layer 集合	Direction(絞向)	--	Left (Z)				
	Pitch(絞距)	mm	75 Ref				
	Filler(填充材質)	--	--				
	Diameter(絞合外徑)	mm	3.75 Ref				
Outside-Tape Wrap 外部包紮	Material(包帶材質)	--	鋁箔麥拉帶				
	Conductive Side(導電面)	--	Outside(向外)				
	Overlap Rate(重疊率)	%	25				
Drain wire 地線	Structure AWG(構造線規)	AWG	30#(1/0.254±0.008)				
	Material (導體材質)	--	Tinned Copper				
Outside-Shield 外部遮蔽	Shield(遮蔽方式)	--	Braid(編織)				
	Structure AWG(構造線規)	--	128±3/36# (16/8/0.12AL±0.08)				
	Material (導體材質)	--	Aluminum Wire				
	Coverage (遮蔽率)	%	85MIN				
	Material (材質)	--	PVC				
	Diameter (線徑)	mm	6 ± 0.19				
Outside Jacket 外部被覆	Average Thickness (平均厚度)	mm	0.84				
	Extrusion(押出方式)	--	Solid(充實)				
	Externals(外觀)	--	Plane(平面)				
	Color(顏色)	--	K1371 黑色				
	Marking 印字	Marking Color(印字顏色)	--	WHITE 白色			
Inking NO.(印字)		G47	Premium HIGH SPEED HDMI™ CABLE WITH ETHERNET E469596. 兄 AWM STYLE 20276 80 C 30V VW-1 ZHONGJU				



COLOR CODE

- 1.WHITE*BROWN 白*棕
- 2.WHITE*BLUE 白*藍
- 3.WHITE*RED 白*紅
- 4.WHITE*GREEN 白*綠
- 5.WHITE*ORANGE 白*橙
- 6.YELLOW 黃
- 7.ORANGE 橙
- 8.WHITE 白
- 9.RED 紅

東莞中鉅資訊光電有限公司
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 Industry District, Xi-Tou Village, Hou-Jie Town TEL: 0769-5994660
 Dongguan City, Guangdong Province P. R. C. FAX: 0769-5994525

CABLE CHARACTERS

SPEC No.:	HDMI 2. 0 (1/0.254BA*1PR+EAM)*5+1/0.254BA*4C+AEB(AL) 85%						
Customer		Customer NO.	--	8 Code	--	Sample NO:	
UL File NO.	E469596	UL Style:	UL20276	Date:	2020/6/29	Spec NO.	--
CSA File NO.	--	CSA Style:	--	Edition:	原版本	Operation NO:	--

Electric Characters

- 1.Voltage rating(額定電壓): 30V
- 2.Temperature rating(額定溫度): 80℃
- 3.Spark test (火花測試): AC- 500V / 0.15 sec MIN.
4. Dielectric strength (耐壓強度): AC- 750V/1sec MIN.
- 5.Insulation resistance(絕緣阻抗) : FOAM-SKIN-PE,HD-PE : DC-500V 100 MΩ/KM MIN. at 20℃
- 6.Conductor resistance (導體阻抗): 30AWG-376.96Ω/M MAX. at 20℃

Transmission Characters

- 1.Differential impedance: 100±10Ω (TMDS)(1PR+EAM)*4 WHITE*(BROWN,RED,GREEN,BLUE)
- 2.Attenuation : (TMDS) (1PR+EAM)*4 WHITE*(BROWN,RED,GREEN,BLUE)

Frequency (MHz)	300kHz~825MHz	825MHz~2475MHz	2475MHz~4125MHz	4125MHz~5100MHz
Attenuation (MAX) dB/1.8M	5dB	5dB~12dB	12dB~20dB	20dB~25dB
Intra-pair skew	112Ps			
Inter-pair skew	1.78ns			
Far-end-Crosstalk	~20dB			

- 3.Differential Impedance: 100±10Ω (1ns~2.5ns)(1PR+EAM) (WHITE*ORANGE)
- 4.Common Mode Impedance: 30+/- 6 Ohms (1ns~2.5ns) (1PR+EAM) (WHITE*ORANGE)
- 5.Attenuation : (TMDS) (1PR+EAM) (WHITE*ORANGE)

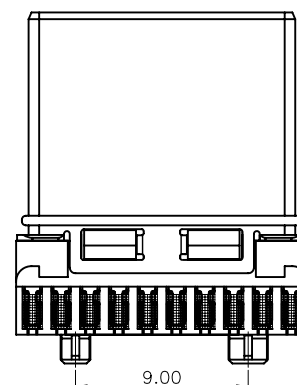
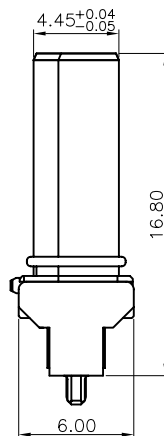
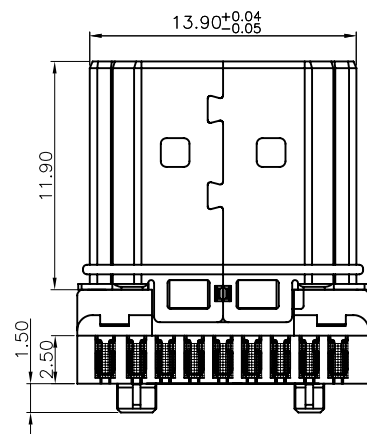
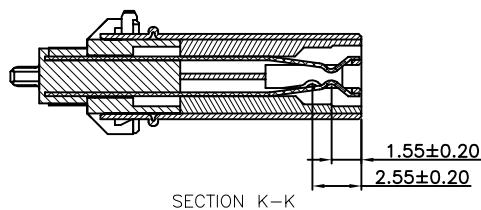
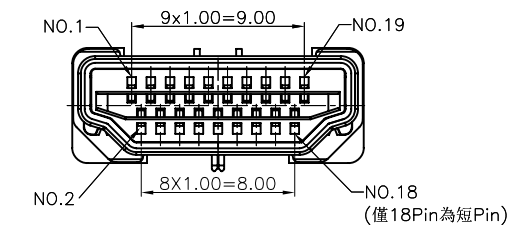
Frequency (MHz)	300kHz~10MHz	10MHz~100MHz	100MHz~200MHz
Attenuation (MAX) dB/1.8M	1.6dB	5dB	7.1dB
Intra-pair skew	111Ps		

Physical Characters

- 1.Flame test of cable(耐燃測試):
 - 1.1 VW-1
- 2.Tensile strength test (before aging) (老化前抗張強度測試):
 - 2.1 Sheath (外被): > 1.05kg/mm2
 - 2.2 Insulation (芯線): > 1.05kg/mm2
- 3.Tensile strength test (after aging)(老化後抗張強度測試):
 - 3.1 Sheath (外被): > 70%
 - 3.2 Insulation (芯線): > 70%
- 4.Elongation(before aging)(老化前引伸):
 - 4.1 Sheath (外被): > 100%
 - 4.2 Insulation (芯線): > 100%
5. Elongation(after aging)(老化後引伸):
 - 5.1 Sheath (外被): > 65%
 - 5.2 Insulation (芯線): > 65%
- 6.Requirements for green environment protection (環保要求) : RoHS 2.0

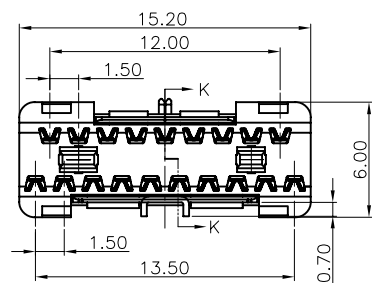
Approval	彭盛福	Auditor	梁勝連	Producer	葉曉琳
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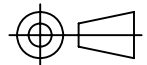
REV.	LTR	ECN/DESCRIPTION	DATE
1.0	--	INITIAL RELEASE	2017.6.9



NOTES:

- MECHANICAL :
 - INSERTION FORCE :44.1 N MAX
 - WITHDRAWAL FORCE :9.8 N MIN.
- ELECTRICAL :
 - CONTACT CURRENT RATING: 0.5A MIN.
 - VOLTAGE RATING :40V AC (rms)
 - WITHSTANDING VOLTAGE: 500 VAC FOR 1 MINUTE.
 - INSULATION RESISTANCE: 100 MEGAOHMS MIN.
 - LLCR: 50 MILLIOHMS MAX.
- ENVIRONMENTAL :
 - OPERATING TEMPERATURE:-25°C TO +85°C

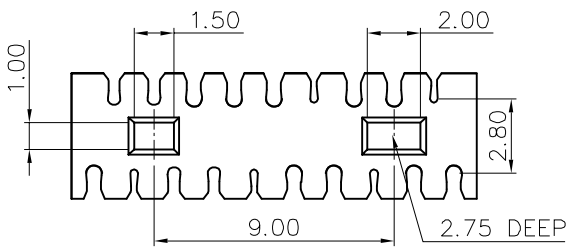
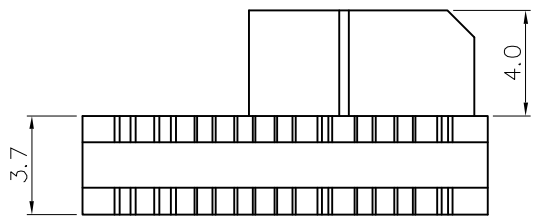
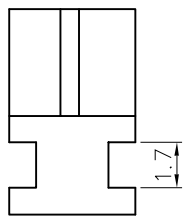
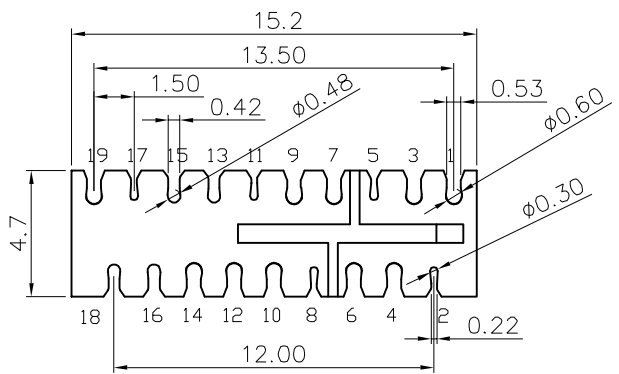


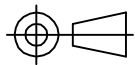
CUSTOMER DRAWING		GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY:	TITLE: HDMI A TYPE 19PIN 带环焊筋带翻边带双卡扣	 東莞市联欧实业有限公司 DONG GUAN LINKO INDUSTRIAL CO., LTD TEL:0769-38984988 FAX:0769-38984998-##1791 東莞市長安鎮烏沙第六工業大道海濱路27號 No. 27, Hai Bin Rd, the 6th Industrial Zone, Wu Sha Village, Chang-An Town, Dong Guan , Guang Dong	
SIZE: A4	UNITS: MM[INCH]	X±0.45 .X±0.35	X'±3.5' .X'±2.5'	CHECKED BY:	PART NO.: Y51S019P-3**N-*B78*-G*		
SCALE: 1:1	REV.: 1.0	.XX±0.25 .XXX±0.15	.XX'±2.0' .XXX'±1.5'	DESIGN BY:	DWG NO.: R-YS251S-82	SHEET 1/1	

由 AUTODESK 教育產品製造

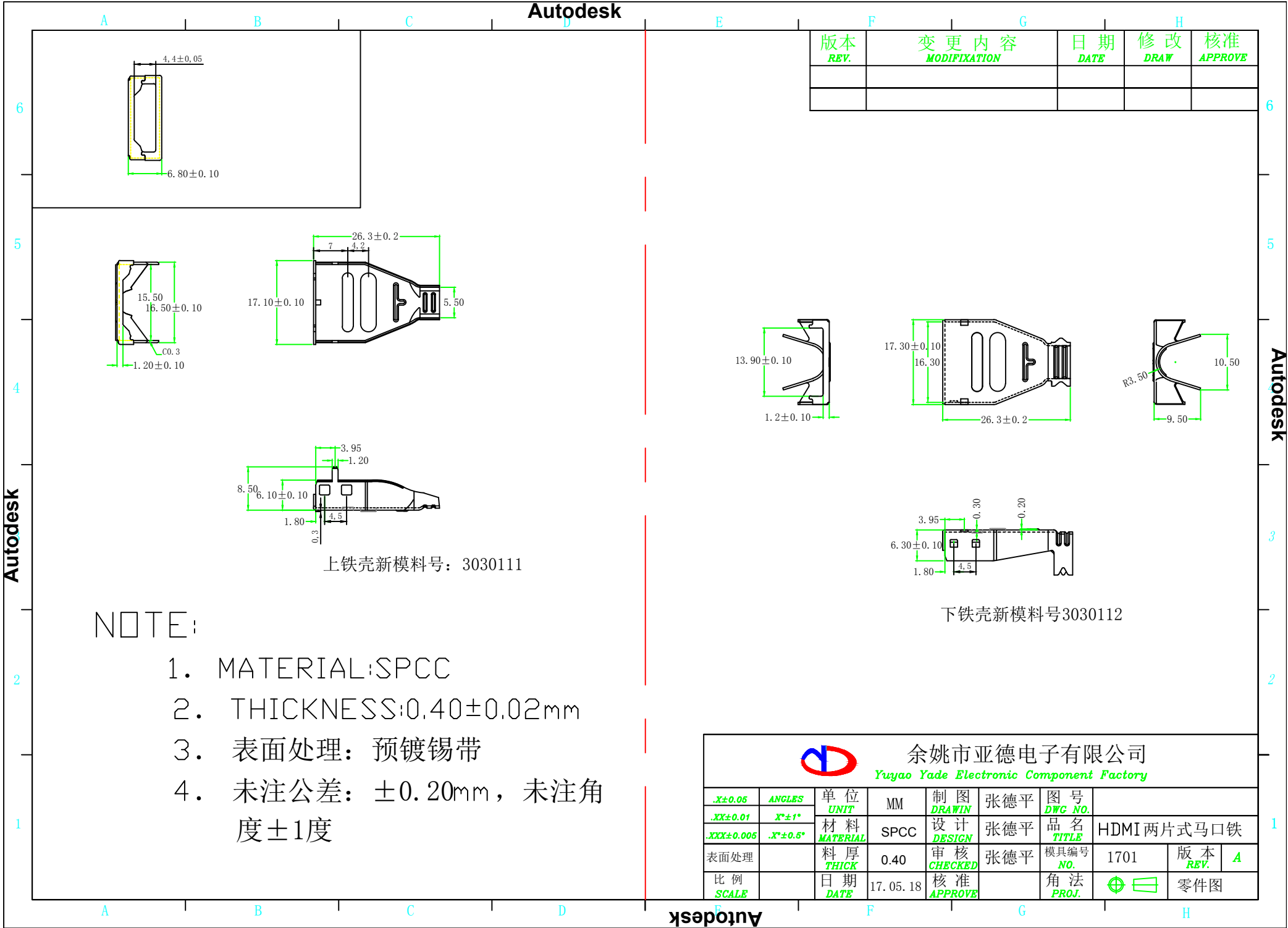
REV.	LTR	ECN/DESCRIPTION	DATE
1.0		INITIAL RELEASE	5/26'17

NOTES:
1. MATERIAL: PA66 15%G.F,COLOR BLACK
2. PIN 1,3,7,9,4,6,10,12,14,19之PIN 槽尺寸一樣
PIN 2,5,8,11,17之PIN 槽尺寸一樣
PIN 13,15,16,18之PIN 槽尺寸一樣



PLASTIC PART DRAWING		GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY:	TITLE: HDMI 19P 線夾, AWG30,1.4版	 東莞市聯歐實業有限公司 DONG GUAN LINKO INDUSTRIAL CO.,LTD TEL:0769-38984988 FAX:0769-38984998-##1791 東莞市長安鎮烏沙第六工業大道海濱路27號 No. 27, Hai Bin Rd, the 6th Industrial Zone, Wu Sha Village, Chang-An Town, Dong Guan , Guang Dong
SIZE A4	UNITS MM[INCH]	X±0.25 .X±0.15	X*±2.5* .X*±2.0*	CHECKED BY:	PART NO.: YB251S258-3014	
SCALE 1:1	REV. 1.0	.XX±0.10 .XXX±0.05	.XX*±1.5* .XXX*±1.0*	DESIGN BY:	DWG NO.: R-YB251S-89	
					SHEET 1/1	

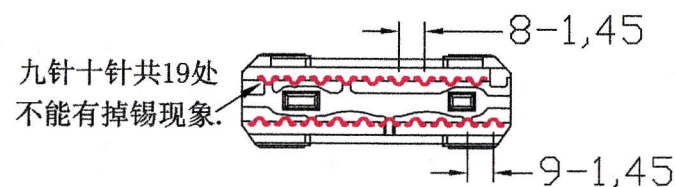
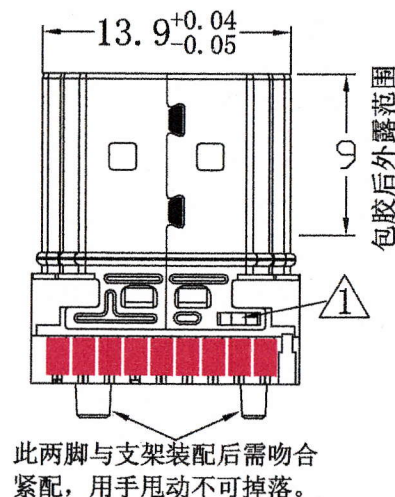
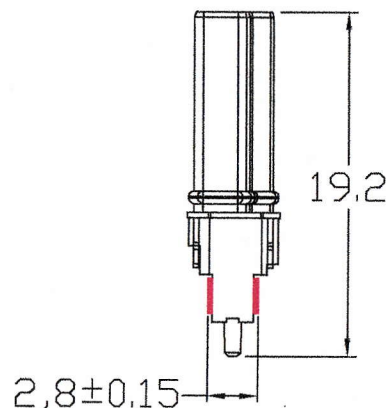
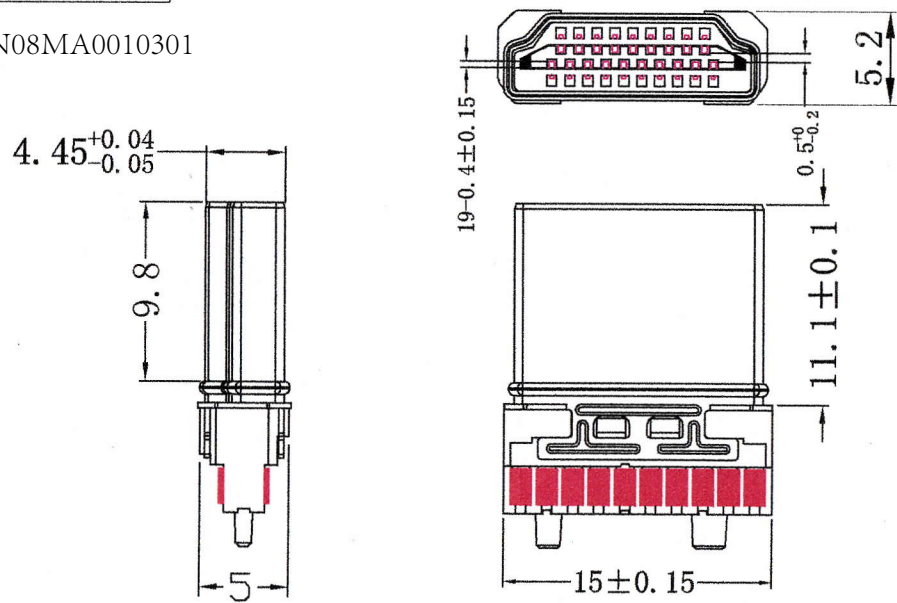
由 AUTODESK 教育產品製造



ROHS

CN08MA0010301

记号	日期	更改内容	修定者	核准
△	2016-02-23	外壳铆压20PIN端子处改为凸包压平的方式。	肖国良	



注:

1. 未标示公差之尺寸依照一般公差。
2. 标有公差之尺寸为重点检验尺寸。
3. 4.45和13.9尺寸只量包胶后外露范围。
4. PIN针端子电镀为半金半锡。

产品特性:

1. 插入力/拔出力: 与HDMI A头母座对插, 插入力最大4.5Kgf, 拔出力在1Kg-4Kgf内。
2. 插拔次数: 与HDMI A头母座对插对插10000次, 插头接触电阻变化值插拔之前30mΩ max, 插拔后50mΩ max。
3. 绝缘强度: 单独连接器测试(两相邻端子或对地), AC 500V 不能击穿; 绝缘阻抗: 单独连接器测试(两相邻端子或对地), 施加DC 500V 最小100MΩ。
4. 盐雾测试要求>24H。



4	锡	19PCS	直径0.7无铅锡丝, 含银含量2.0%	/
3	PIN针端子	19PCS	C5191 HV200-220度 T=0.2mm	锡80-100U", 金G/F
2	铁壳	1PCS	SPCC HV110-140度 T=0.28mm	镀镍80-100U"
1	前后盖胶芯	各1PCS	LCP BLACK	/
NO	零件名称	数量	简要资料	表面处理

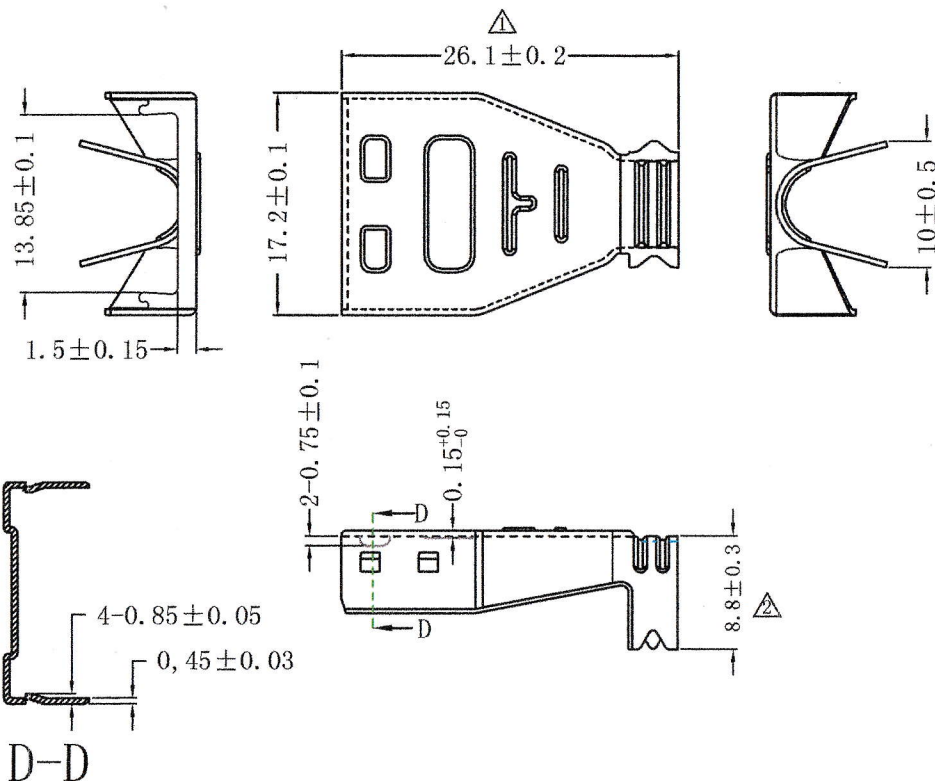
一般公差		中山立杰精密器材有限公司 Zhong Shan Li Jie Exactitude Equipment Co., Ltd			
0~10 ±0.1	核准	审核	制图	材料:	品名:
>10~50 ±0.15			龚文贤	/	HDMI-铁壳A款-镀镍-加锡
>50~100 ±0.2				表面处理:	料号:
>100~ ±0.3				/	A0010096ACE
ANGULAR ±2°				单位:	日期:
				mm	2016.02.23
				比例:	版本
				1:1	A1

ROHS

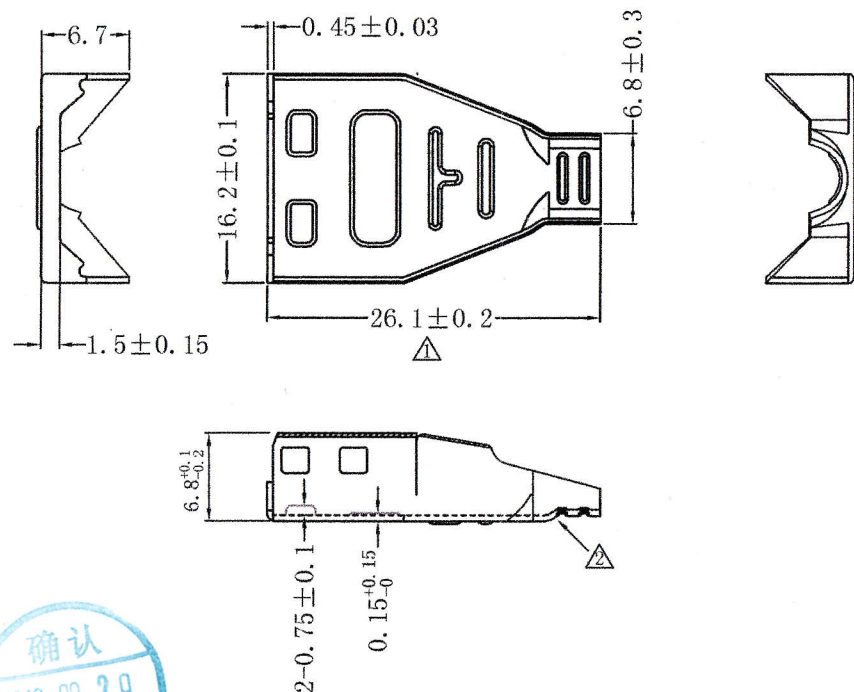
HW02SN001

HW03SN001

上盖图



下盖图



注:

1. 未标示公差之尺寸依照一般公差。
2. 标有公差的尺寸为重点检验尺寸。
3. 表面要求一般, 需经防锈处理。
4. 上下盖需易组装, 不能轻易脱开。
5. 马口铁锡层厚度为2.8/2.8锡(10-14U")。

一般公差

0~4	±0.1
>4~16	±0.15
>16~64	±0.25
>64~250	±0.35
>250~500	±0.5
>500~	±0.8
ANGLE	±2°

LJIE

中山立杰精密器材有限公司

zhong shan li jie Exactitude Equipment CO, Ltd

核准

审核

制图

龚文贤

材料:

马口铁(SPTE)

品名:

HDMI屏蔽铁壳A款-上下盖(OD5.5-6.0)

表面处理:

防锈油处理

材料厚度:

T=0.45±0.03

料号: A0010096AH(上盖)
A0010096AI(下盖)

版本

单位:

mm

比例:

1:1

日期:

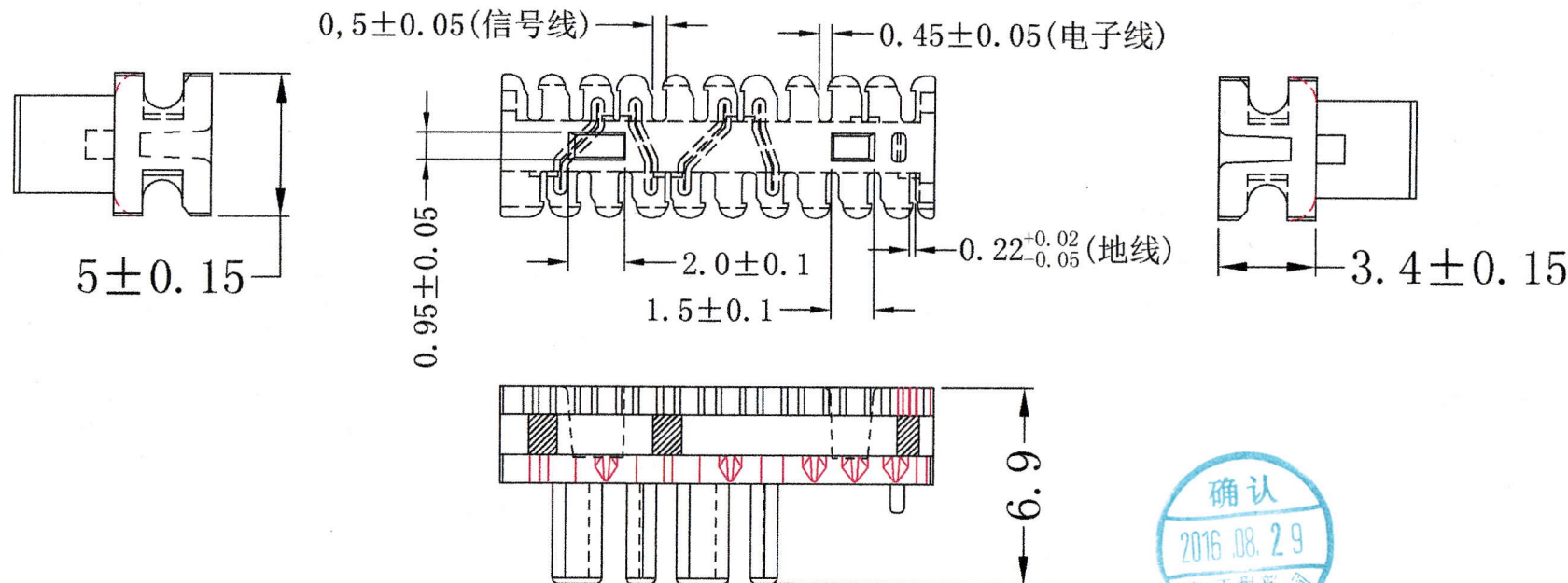
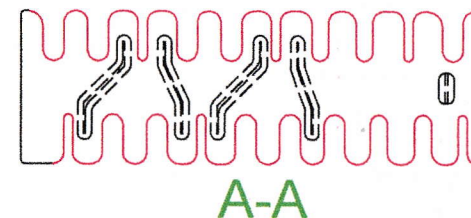
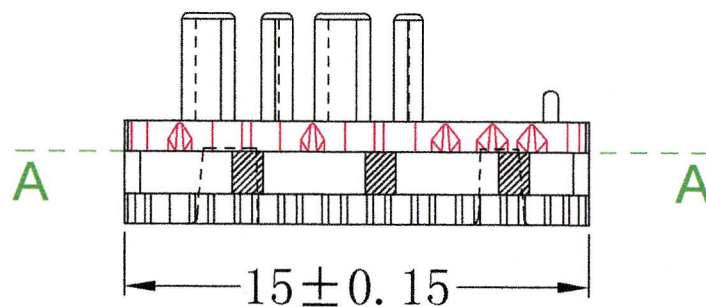
2015.11.18

A2

ROHS

PCMCBK004

记号	日期	更改内容	核准
△			



注:

1. 未标示公差之尺寸依照一般公差。
2. 标有公差之尺寸为重点检验尺寸。
3. 产品不可有铍锋、毛刺、毛边。
4. 线槽实配，线压入后不可松动、不可有线没到底，支架不可变形。

一般公差

0~4	±0.1
>4~16	±0.15
>16~64	±0.25
>64~250	±0.35
>250~500	±0.45
>500~	±0.55
ANGLE	±1°

LJIE

中山立杰精密器材有限公司

Zhong Shan Li Jie Exactitude Equipment Co., Ltd

核准

审核

制图

材料:

泥龙料黑色

品名:

HDMI-支架30裸线1.4版手工排线(A款)

表面处理:

/

材料硬度:

/

料号:

A0010096DCD

版本

单位:

mm

比例:

1:1

日期:

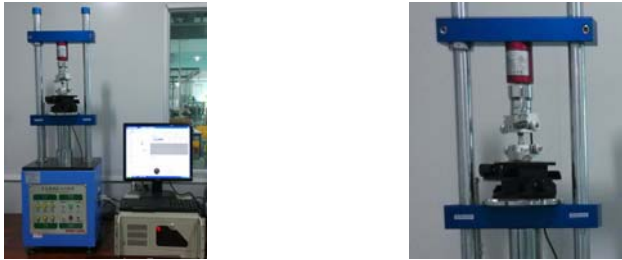
2015.11.06

A0

插拔力測試

Insertion and Withdrawal Force Test Record

樣品名稱	數量	報告
Product type	Qunatity	Report
型號	測試數量	測試日期
Part number	Sample	Date
客戶名稱	Customer	Customer
Customer	P/N	PO#

測試條件 Electrical test conditions	1.插拔次數:10000次					
	2.用HDMI A頭母座測試					
	3.插入力最大4.5kg,拔出1.0kg~4.0kg					
測試儀器 Test Instrument	全自動插拔壽命試驗機 Automatic plug-life testing machine					
測試圖片 Test Pictures	Test Picture					
						
測試數據 Test Data	Test Result					
	名稱	iMax(kg)	iMax(mm)	wMax(kg)	wMax(mm)	
	Max(最大值)	3.40	2.66	-2.01	2.70	
	Min (最小值)	2.71	2.60	-1.53	2.68	
	Rang(差值)	0.69	0.06	0.48	0.02	
	Average(平均值)	3.24	2.62	-1.59	2.69	
	Cycles(次數)	iMax(kg)	iMax(mm)	wMax(kg)	wMax(mm)	
	1	2.71	2.66	-2.01	2.68	
	2000	3.29	2.63	-1.55	2.70	
	4000	3.40	2.63	-1.55	2.70	
	6000	3.33	2.61	-1.61	2.69	
	8000	3.18	2.62	-1.57	2.68	
	10000	3.03	2.63	-1.60	2.69	
判斷標準 Judgement standard	功能OK。 The function is OK					
判斷結果 Test Result	☒ PASSED ☐ REJECTED 僅供參考 Reference Only					

主管 Supervisor : 許晶

測試員 Tester : 李群

电性绝缘阻抗测试 Electrical insulation resistance test

樣品名稱 Product type	HDMI-铁壳A款-镀镍-加锡	數量 Qunatity	5PCS	報告 Report	LJ20020602
型號 Part number		測試日期 Sample	5PCS	測試日期 Date	2020.02.06
客戶名稱 Customer		Customer P/N	/	Customer PO#	/

測試條件 Electrical test conditions	1. VOLTAGE:DC 500V
	2. INSULATION RESISTANCE:100MΩ
	3. CONTACT RESISTANCE:1Ω
	4. 配测产品: HDMI A头母座,19PIN探针

測試儀器 Test Instrument	1. 中逸线材综合测试机 配检测治具 2. 规格型号: CT-8681"
-------------------------	---

測試圖片 Test Pictures	Test Picture																		
																			

測 試 數 據 Test Data	PIN 针点位																			
	序号	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	1	0.35	0.31	0.39	0.31	0.41	0.4	0.29	0.31	0.37	0.31	0.33	0.31	0.36	0.29	0.31	0.37	0.31	0.33	0.31
	2	0.42	0.31	0.41	0.4	0.31	0.31	0.28	0.29	0.47	0.39	0.38	0.4	0.36	0.39	0.35	0.42	0.31	0.41	0.39
	3	0.31	0.31	0.28	0.35	0.31	0.31	0.28	0.29	0.28	0.35	0.40	0.41	0.4	0.31	0.31	0.33	0.31	0.36	0.39
	4	0.4	0.29	0.29	0.35	0.4	0.35	0.31	0.39	0.31	0.41	0.4	0.29	0.41	0.4	0.29	0.29	0.32	0.31	0.29
	5	0.31	0.39	0.35	0.29	0.31	0.37	0.31	0.33	0.35	0.47	0.39	0.38	0.4	0.36	0.39	0.4	0.31	0.31	0.28
	判定	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	绝缘阻抗 (MΩ)	稼材測試 測試時間: 0.668Sec 良品:5 不良:0 CUMD A20-B20 0.2549 INSUL (HUX) TEST PASS 測試完畢，請取下稼材！																		

判斷標準 Judgement standard	電氣測試OK, 功能OK。 Electrical test OK, the function is OK
----------------------------	---

判斷結果 Test Result	☒ PASSED ☐ REJECTED 僅供參考 Reference Only
------------------	--

主管 Supervisor : 许晶

測試員 Tester : 甘英伟

盐雾测试报告

客户名称：试验日期： 20年2月6日

品 名	HDMI-铁壳A款-镀镍-加锡			试验样品数	5PCS	生产序号	
试验时间	6日 08:30时 至 7日 08:30时				喷雾时间共	24H	
试验有无中断	☐ 有中断 ☒ 无中断	试验中断原因					
项次	试 验 条 件						
	项目		条件				
1	氯化钠品质		试药一级				
2	蒸馏水品质		纯水				
3	喷雾器喷雾量		1. 5ml/80cm. Hr				
4	收集溶液室温的比重或浓度		盐水浓度5/100				
5	PH值		6. 5-7. 2				
6	试样种类		☒ 镀锡/镍/金 ☐ 马口铁 ☒ 青铜/磷铜 ☒ 冷扎板				
7	压缩空气压力		1kgf/cm				
8	试验室相对温度		35度				
9	试验室温度		35度				
10	压力桶温度		47度				
11	压水桶温度		47度				
试样表面外观的变化				评定等级		腐蚀率r (%)	
a. 无变化				10		0	
b. 轻微到中度的变色				9		0<r≤0. 25	
c. 严重的失色到极微的失光				8		0. 25<r≤0. 5	
d. 轻微的失光或出现极轻微的腐蚀产物				7		0. 5<r≤1	
e. 严重失光或在试样局部表面上布有薄层的腐蚀产物或点蚀				6		1<r≤2	
f. 有腐蚀物或点蚀且其中之一集中分布在整个试样表面上				5		2<r≤4	
g. 整个表面上布有厚的腐蚀产物层或点蚀，并有深的点蚀				4		4<r≤8	
h. 整个表面布有非常厚的腐蚀产物和点蚀，并有深的点蚀				3		8<r≤16	
i. 出现其体金属腐蚀				2		16<r≤32	
判 定	1. 依据[CNS4158，H2040标准]判定为10级。 2. ☒ 合格 ☐ 不合格						
核准	许晶	审核		制作	李群		

盐雾测试报告

客户名称:

试验日期: 2020年2月6日

品 名	HDMI-屏蔽铁壳A款-上下盖 (OD5.5-6.0)		试验样品数	5PCS	生产序号	
试验时间	6日 08:30时 至 6日 20:30时			喷雾时间共	12H	
试验有无中断	☐ 有中断 ☒ 无中断	试验中断原因				
项次	试 验 条 件					
	项目		条件			
1	氯化钠品质		试药一级			
2	蒸馏水品质		纯水			
3	喷雾器喷雾量		1.5ml/80cm. Hr			
4	收集溶液室温的比重或浓度		盐水浓度5/100			
5	PH值		6.5-7.2			
6	试样种类		☐ 镀锡/镍/金 ☒ 马口铁 ☐ 青铜/磷铜 ☐ 冷扎板			
7	压缩空气压力		1kgf/cm			
8	试验室相对温度		35度			
9	试验室温度		35度			
10	压力桶温度		47度			
11	压水桶温度		47度			
试样表面外观的变化			评定等级		腐蚀率r (%)	
a. 无变化			10		0	
b. 轻微到中度的变色			9		$0 < r \leq 0.25$	
c. 严重的失色到极微的失光			8		$0.25 < r \leq 0.5$	
d. 轻微的失光或出现极轻微的腐蚀产物			7		$0.5 < r \leq 1$	
e. 严重失光或在试样局部表面上布有薄层的腐蚀产物或点蚀			6		$1 < r \leq 2$	
f. 有腐蚀物或点蚀且其中之一集中分布在整个试样表面上			5		$2 < r \leq 4$	
g. 整个表面上布有厚的腐蚀产物层或点蚀, 并有深的点蚀			4		$4 < r \leq 8$	
h. 整个表面布有非常厚的腐蚀产物和点蚀, 并有深的点蚀			3		$8 < r \leq 16$	
i. 出现其体金属腐蚀			2		$16 < r \leq 32$	
判 定	1. 依据[CNS4158, H2040标准]判定为10级。 2. ☒ 合格 ☐ 不合格					
核 准	许晶	审 核		制 作	甘英伟	



Pan-International Inc.
东莞市广宇电线电缆有限公司

线材摇摆测试报告

产品编号 P/N		测试日期 Test Date	2020/5/28
产品名称 Product Name	HDMI TO HDMI L=1.8M	测试数量 Test Q'ty	3 PCS
测试设备 Test Equipment	摇摆试验机	测试环境 Test Environment	温度23 ℃；湿度50 %RH

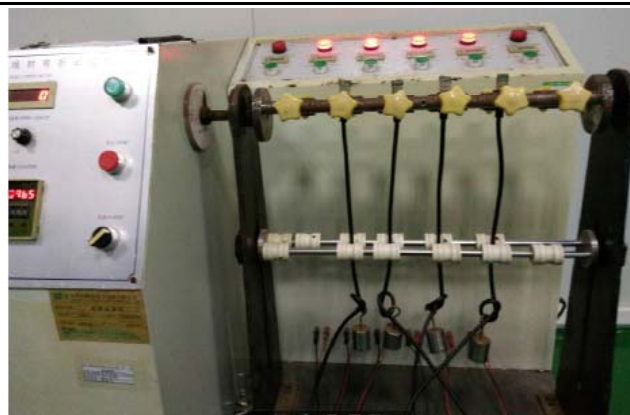
测试条件 Measuring Conditions

测试方法 Test Method	摇摆角度±90 度，摇摆频率：10 Cycles/min，线体载荷 200克，R角=25.4mm
判定标准 Judgment Standard	摇摆次数 100次后外观无破损，内部结构无松脱、损伤或断线；性能测试通过

测试记录 Test Record

序号	实测值	判定
1	实验100次后线材未断裂电性良好	OK
2	实验100次后线材未断裂电性良好	OK
3	实验100次后线材未断裂电性良好	OK

测试图片 Test picture



最终判定Final Judgment

☒ 合格PASS ☐ 不合格REJECTED ☐ 供参考REFERENCE

备注说明 Remark :

App. By	Raber	Check By	Honda	Test By:	HT
---------	-------	----------	-------	----------	----



佳燁科技
Ghiatek Technologies

35061CS00-43V-G

Test Report

For

Foxconn

Test Date:

2020/12/09 09:27

Test Equipment List :

Equipment	Manufacture	P/N	S/N	Description
Network Analyzer	Agilent	E5071C	MY46524809	4 Port, 300 kHz to 20 GHz
Time Domain Reflectometry	Agilent	ENA-TDR	MY46524809	
Pattern Generator	Agilent	ENA-TDR	MY46524809	

Device Under Test (DUT) & Test Environment Information :

P / N:	35061CS00-43V-G	Specifications:	
DUT Lot:		DUT Bundle:	
DUT Length(M):	1.8	Test Pair:	5 Pairs
Temperature(°C):	23	Humidity(%):	50
Remark:			

Test Result Summary:

1	Attenuation	Pass
2	HEAC Attenuation	Pass
3	FEXT	Pass
4	Differential Impedance	Pass
5	Connector Impedance	Pass
6	Connector Impedance FarEnd	Pass
7	Differential Delay	Pass
8	IntraPair Skew	Pass
9	HEAC SingleEnd Impedance	Pass
10	HEAC CommonMode Impedance	Pass
11	HEAC Differential Impedance	Pass
12	HEAC Connector Impedance	Pass
13	HEAC Connector Impedance FarEnd	Pass
14	HEAC IntraPair Skew	Pass
15	InterPair Skew	Pass
16	Eye Pattern	Pass

Test Result: **Pass**

Test Data Summary Page 1 of 3

Attenuation

起始频率	结束频率	规格上限	规格下限	CLK	D0	D1	D2
0.3	0.3	--	-5	-0.533	-0.542	-0.545	-0.544
825	825	--	-5	-2.919	-3.001	-2.901	-2.917
2475	2475	--	-12	-5.741	-5.965	-6.447	-5.538
4125	4125	--	-20	-8.486	-8.785	-10.501	-8.635
5100	5100	--	-25	-10.492	-9.615	-10.615	-9.479
0.3	5100	--	-5.00→-25.00	-2.987	-3.227	-3.018	-3.264
MHz	MHz	dB/Cable	dB/Cable	Pass	Pass	Pass	Pass

HEAC Attenuation

起始频率	结束频率	规格上限	规格下限	HEAC
1	10	--	-1.6	-1.030
10	100	--	-5	-1.601
100	200	--	-7.1	-1.881
MHz	MHz	dB/Cable	dB/Cable	Pass

FEXT

起始频率	结束频率	规格上限	规格下限	CLK-D0	CLK-D1	CLK-D2	D0-D1	D0-D2	D1-D2
0.3	5100	-20	--	-30.172	-31.055	-35.570	-27.573	-36.205	-29.100
MHz	MHz	dB	dB	Pass	Pass	Pass	Pass	Pass	Pass

Differential Impedance, Tr= 200 ps (10% 90%)

对数名称	规格上限	规格下限	最大阻抗	最小阻抗	差异值	平均值	状态
CLK	110	90	99.99	96.29	3.70	98.14	Pass
D0	110	90	97.14	94.76	2.38	95.95	Pass
D1	110	90	99.50	95.61	3.89	97.56	Pass
D2	110	90	100.13	97.45	2.68	98.79	Pass
单位：	Ohm	Ohm	Ohm	--	--	--	--

Connector Impedance, Tr= 200 ps (10% 90%)

对数名称	规格上限	规格下限	最大阻抗	最小阻抗	凸点宽度	差异值	状态
CLK	125~115,250	75~85,250	113.65	96.55	0.0	17.10	Pass
D0	125~115,250	75~85,250	113.73	95.00	0.0	18.73	Pass
D1	125~115,250	75~85,250	113.91	95.54	0.0	18.37	Pass
D2	125~115,250	75~85,250	113.88	95.47	0.0	18.41	Pass
单位：	Ohm	Ohm	Ohm	--	--	--	--

Connector Impedance FarEnd, Tr= 200 ps (10% 90%)

对数名称	规格上限	规格下限	最大阻抗	最小阻抗	凸点宽度	差异值	状态
CLK	125~115,250	75~85,250	109.71	96.54	0.0	13.17	Pass
D0	125~115,250	75~85,250	111.24	95.69	0.0	15.55	Pass
D1	125~115,250	75~85,250	109.09	95.21	0.0	13.88	Pass
D2	125~115,250	75~85,250	114.15	96.80	0.0	17.35	Pass
单位：	Ohm	Ohm	Ohm	--	--	--	--

Test Data Summary Page 2 of 3

Differential Delay, Tr= 200 ps (10%_90%)

对数名称	规格上限	规格下限	延迟值	状态
CLK	5.5	--	4.670	Pass
D0	5.5	--	4.738	Pass
D1	5.5	--	4.649	Pass
D2	5.5	--	4.686	Pass
单位：	ns/M	ns/M	ns/M	--

IntraPair Skew, Tr= 200 ps (20%_80%)

对数名称	规格上限	规格下限	延迟差值	状态
CLK	112	--	-64.231	Pass
D0	112	--	-17.026	Pass
D1	112	--	-67.153	Pass
D2	112	--	39.480	Pass
单位：	ps	ps	ps	--

HEAC SingleEnd Impedance, Tr= 1000 ps (10%_90%)

对数名称	规格上限	规格下限	最大阻抗	最小阻抗	差异值	平均值	状态
HEAC	74.25	35.75	57.18	51.95	5.23	54.57	Pass
单位：	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	--

HEAC CommonMode Impedance, Tr= 1000 ps (10%_90%)

对数名称	规格上限	规格下限	最大阻抗	最小阻抗	差异值	平均值	状态
HEAC	36	24	33.41	28.20	5.21	30.81	Pass
单位：	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	--

HEAC Differential Impedance, Tr= 1000 ps (10%_90%)

对数名称	规格上限	规格下限	最大阻抗	最小阻抗	差异值	平均值	状态
HEAC	110	90	105.65	96.75	8.90	101.20	Pass
单位：	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	--

HEAC Connector Impedance, Tr= 1000 ps (10%_90%)

对数名称	规格上限	规格下限	最大阻抗	最小阻抗	凸点宽度	差异值	状态
HEAC	125~115,250	75~85,250	115.28	100.81	150.0	14.47	Pass
单位：	Ohm,ps	Ohm,ps	Ohm	Ohm	ps	Ohm	--

HEAC Connector Impedance FarEnd, Tr= 1000 ps (10%_90%)

对数名称	规格上限	规格下限	最大阻抗	最小阻抗	凸点宽度	差异值	状态
HEAC	125~115,250	75~85,250	113.73	100.22	0.0	13.51	Pass
单位：	Ohm,ps	Ohm,ps	Ohm	Ohm	ps	Ohm	--

HEAC IntraPair Skew, Tr= 1000 ps (10%_90%)

对数名称	规格上限	规格下限	延迟差值	状态
HEAC	111	--	72.388	Pass
单位：	ps	ps	ps	--

InterPair Skew, Tr= 200 ps (10%_90%)

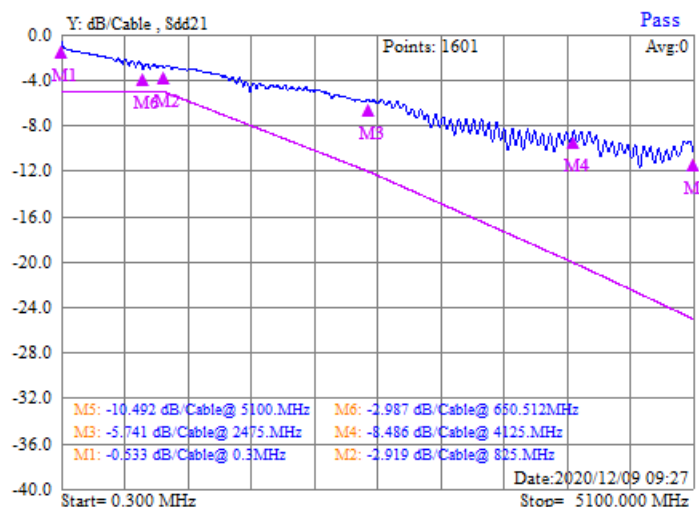
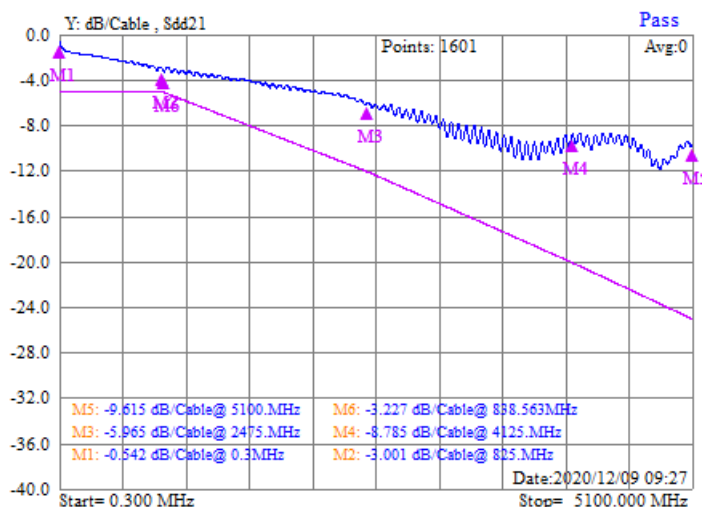
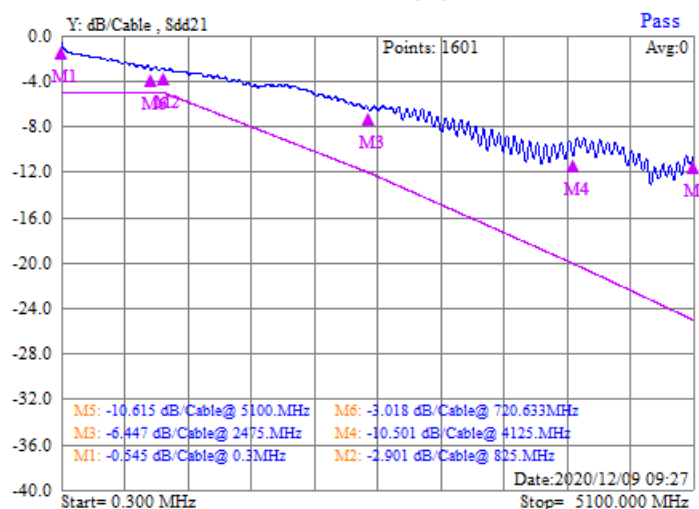
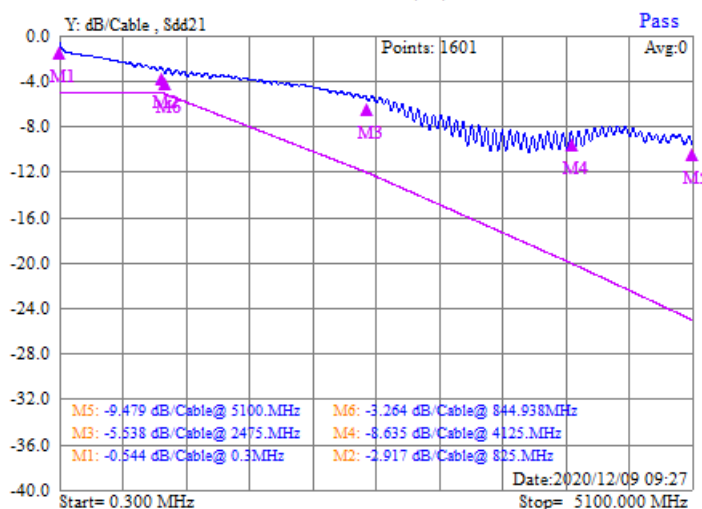
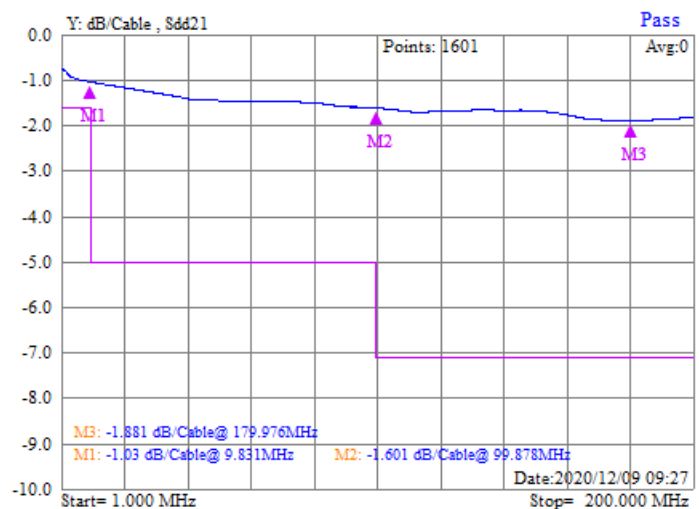
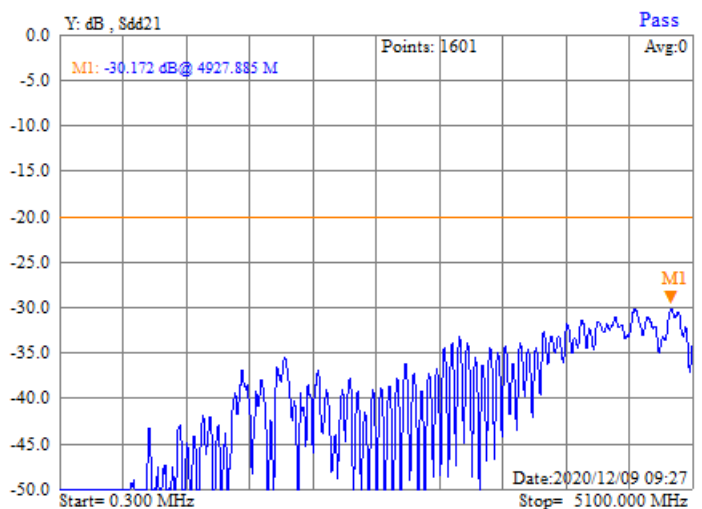
对数名称	规格上限	规格下限	延迟差值	状态
ALL	1780	--	160	Pass
单位：	ps	ps	ps	--

Test Data Summary Page 3 of 3

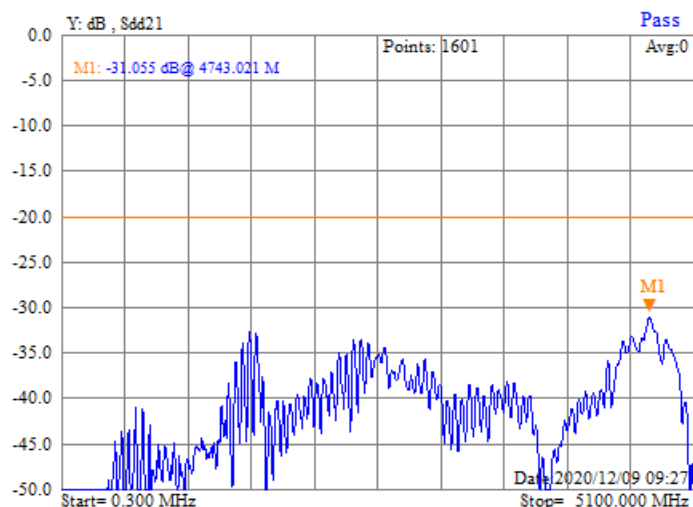
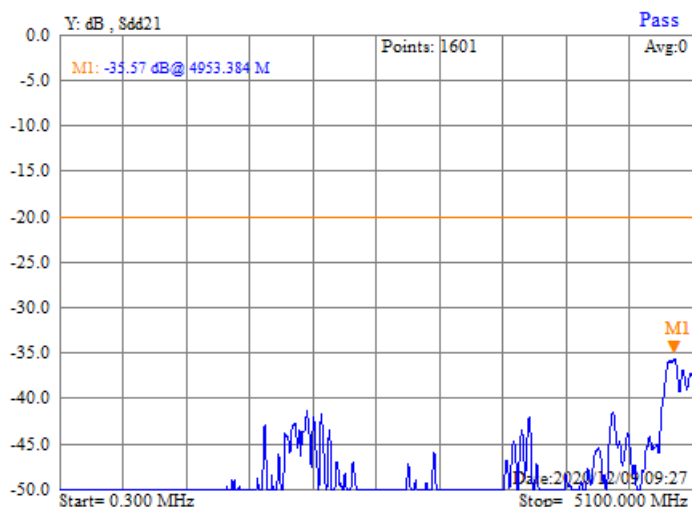
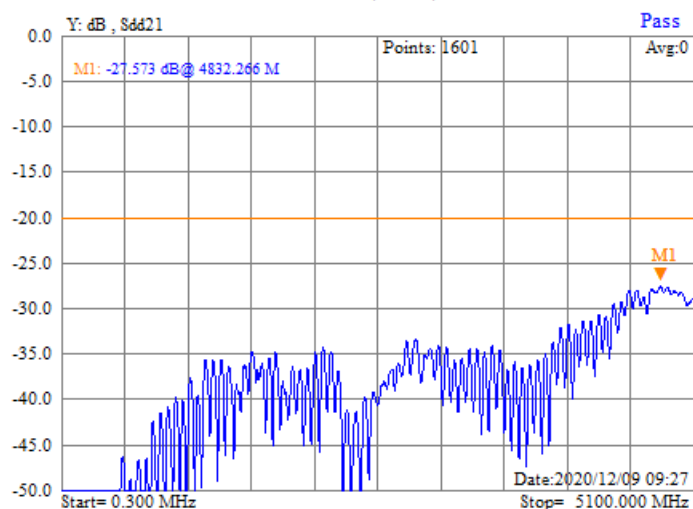
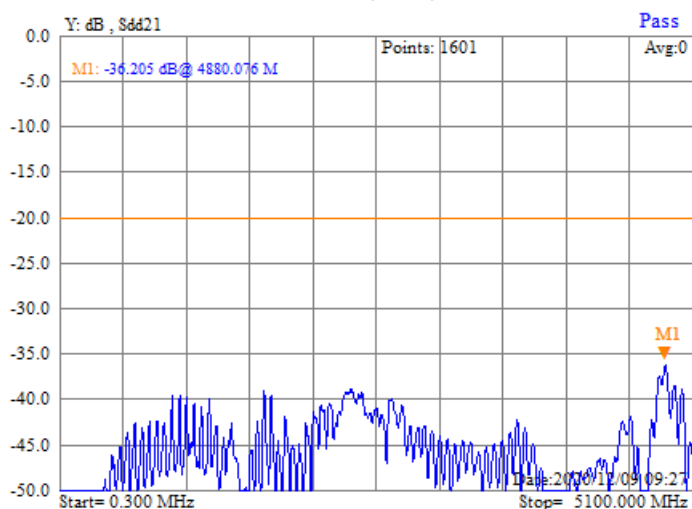
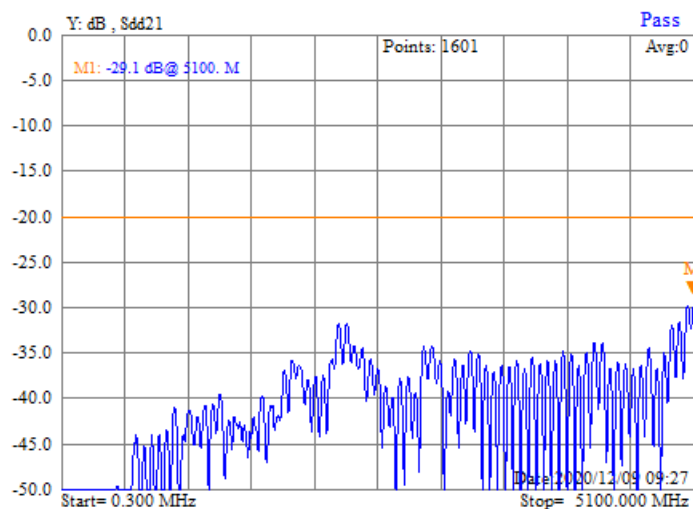
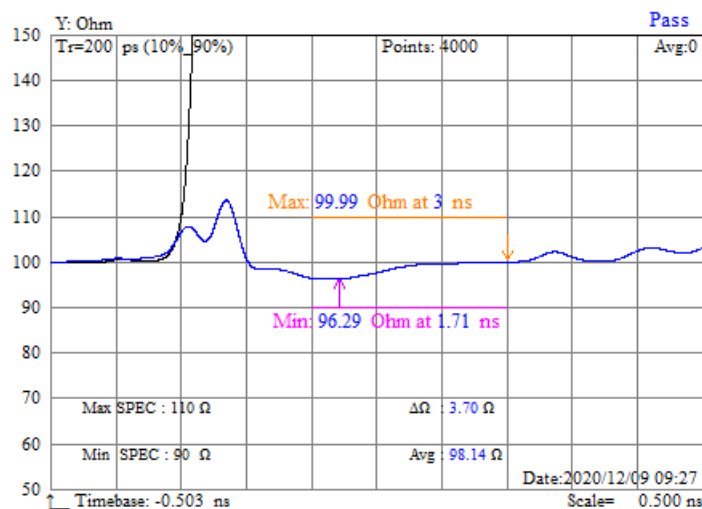
Eye Pattern

Item Name	Eye_Mask	Status
Spec Max	--	--
Spec Min	--	--
CLK	Pass	Pass
D0	Pass	Pass
D1	Pass	Pass
D2	Pass	Pass
Unit	Mask	--

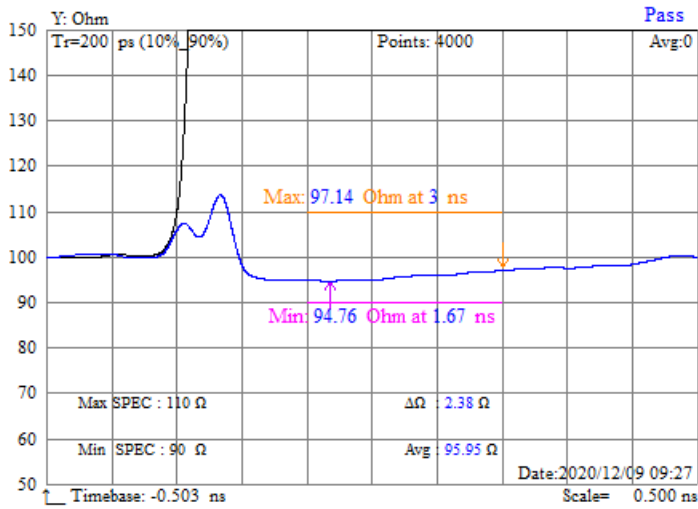
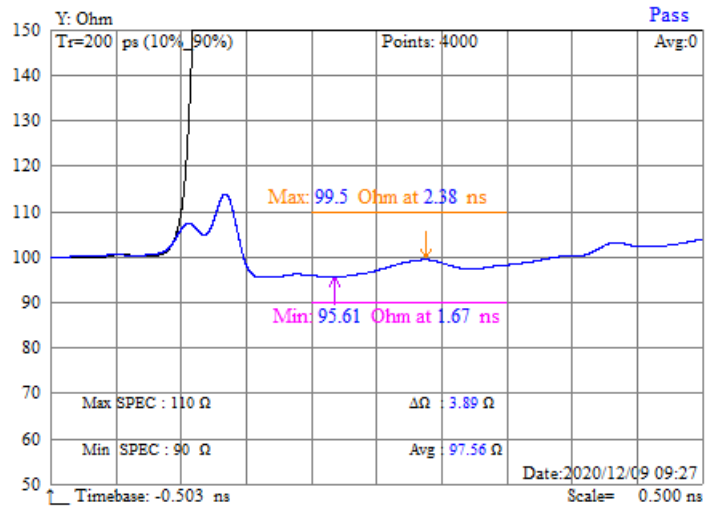
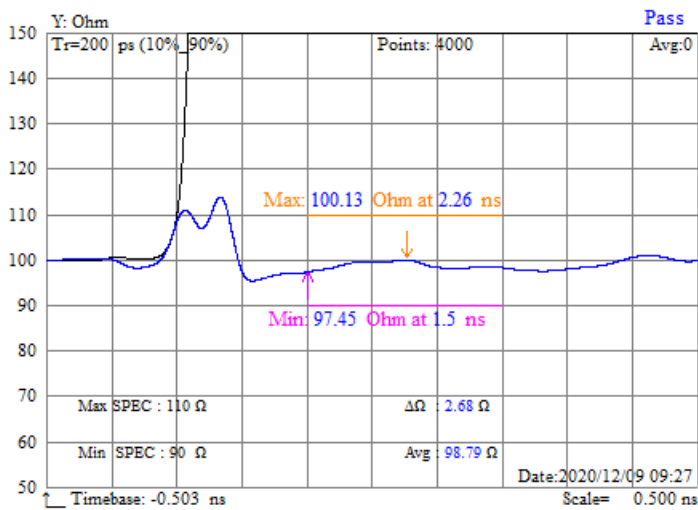
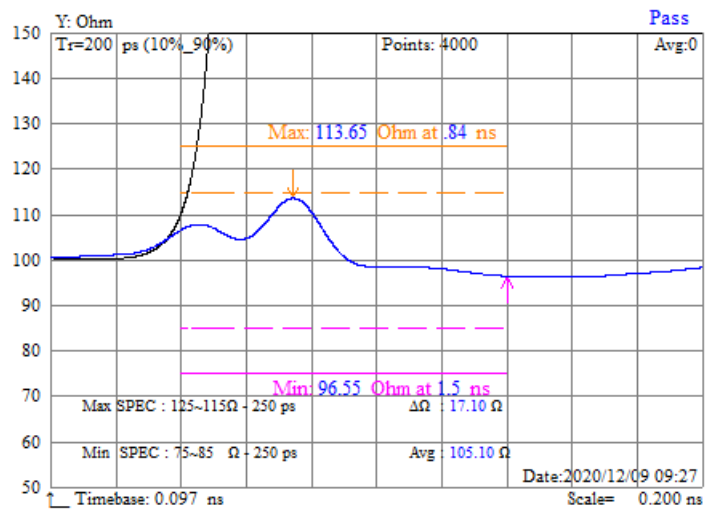
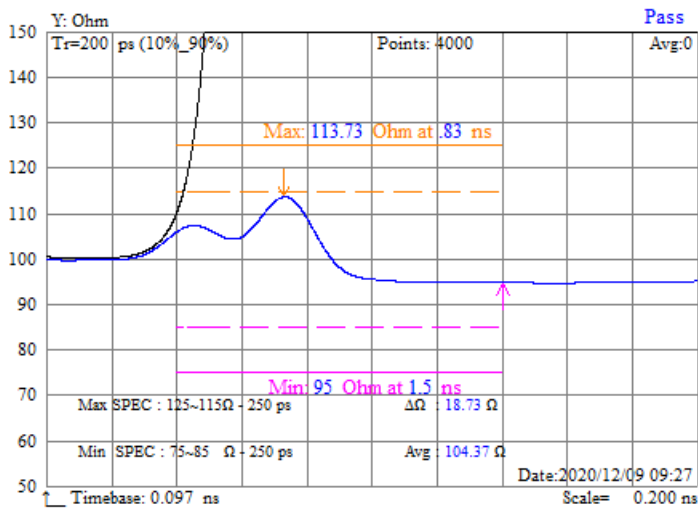
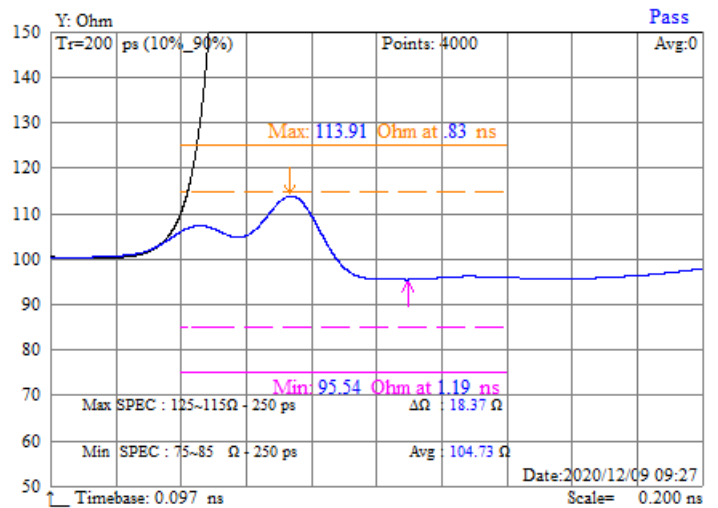
Test Graphic Summary Page 1 of 7

Attenuation (CLK)Attenuation (D0)Attenuation (D1)Attenuation (D2)HEAC_Attenuation (HEAC)FEXT (CLK-D0)

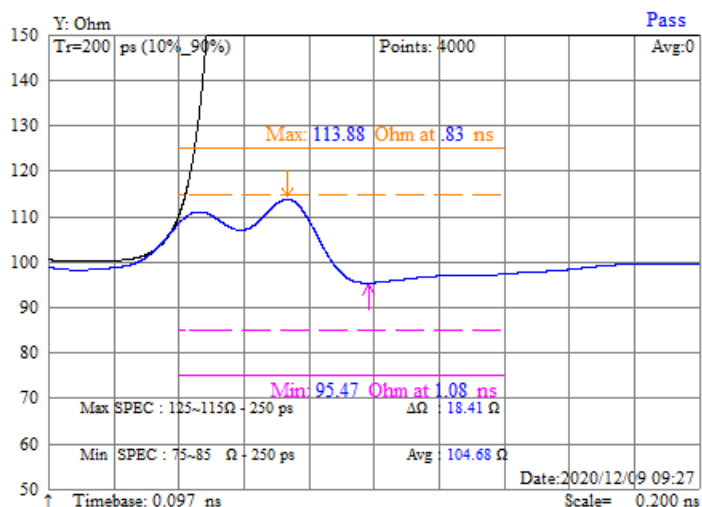
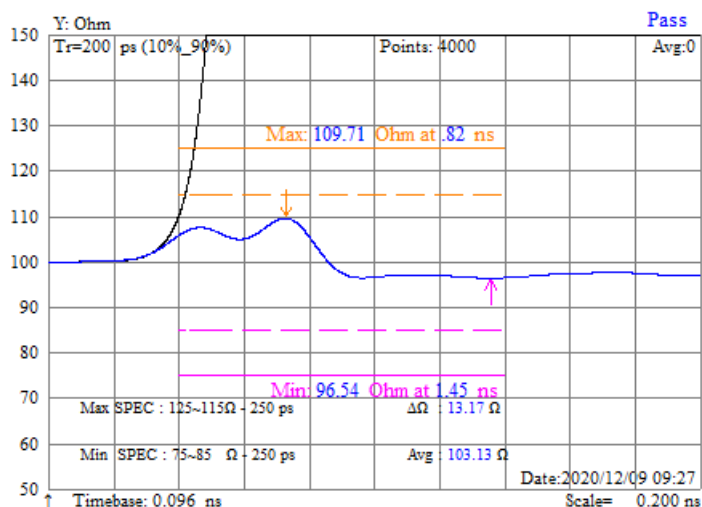
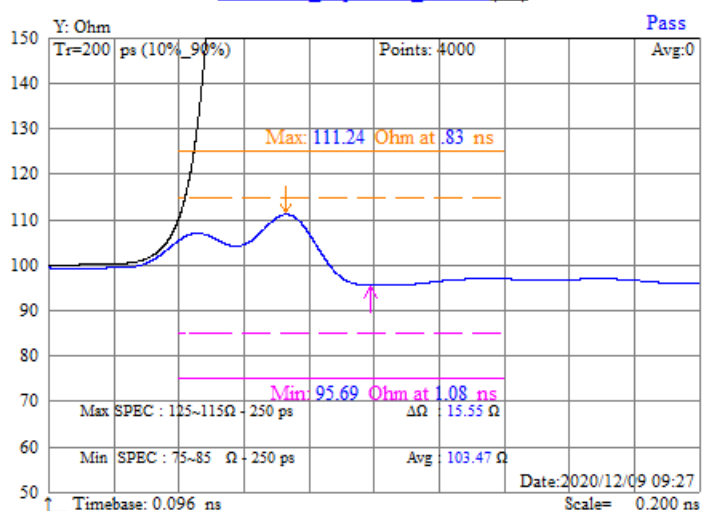
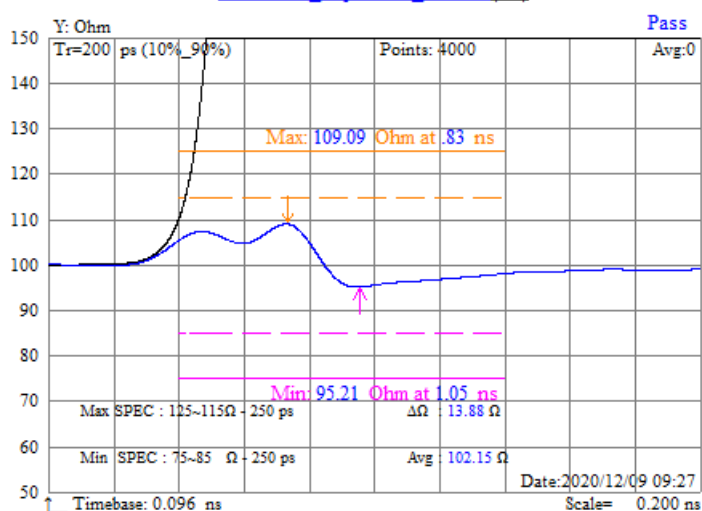
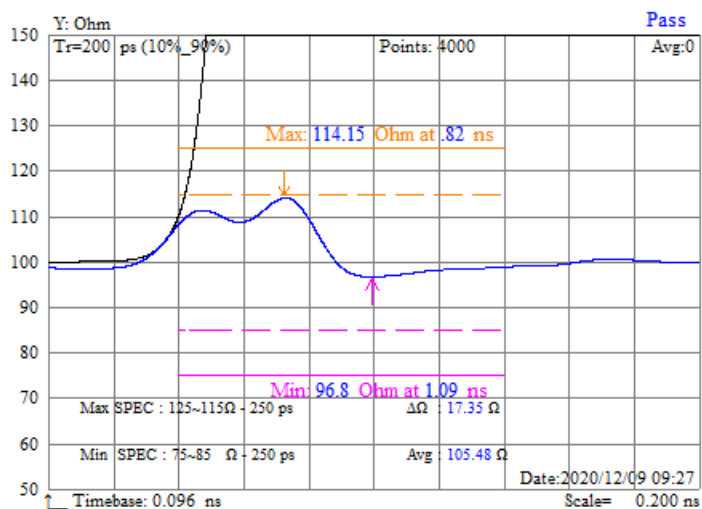
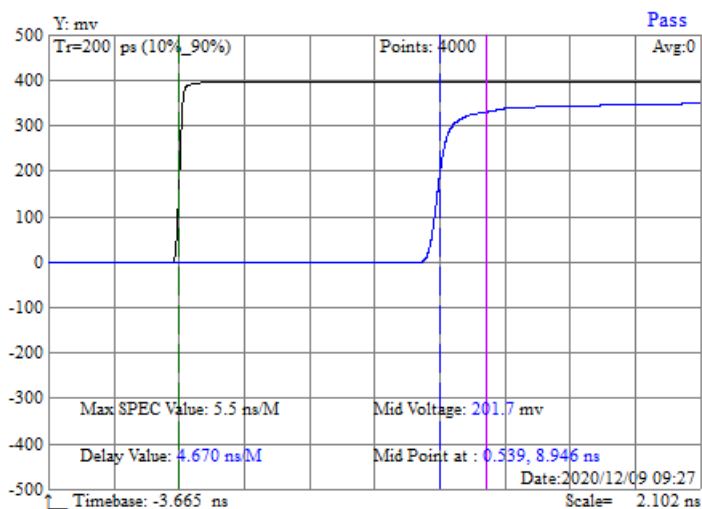
Test Graphic Summary Page 2 of 7

FEXT (CLK-D1)FEXT (CLK-D2)FEXT (D0-D1)FEXT (D0-D2)FEXT (D1-D2)Differential_Impedance (CLK)

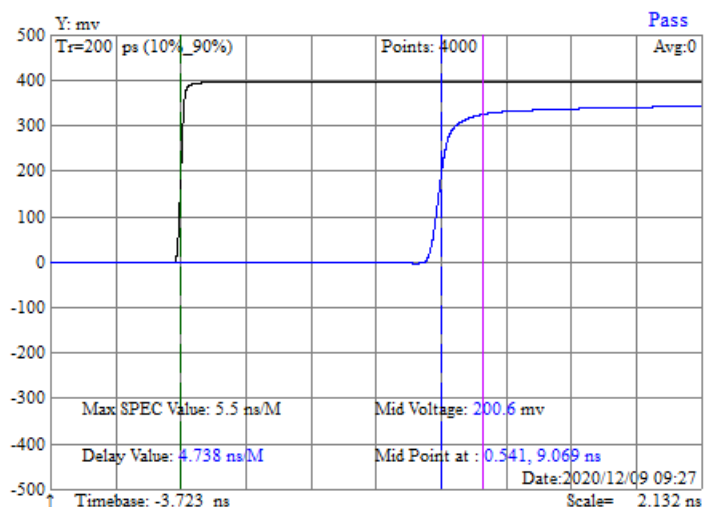
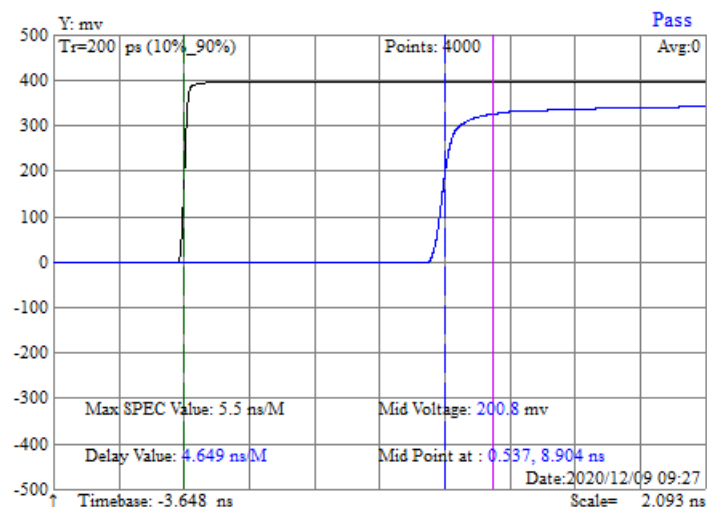
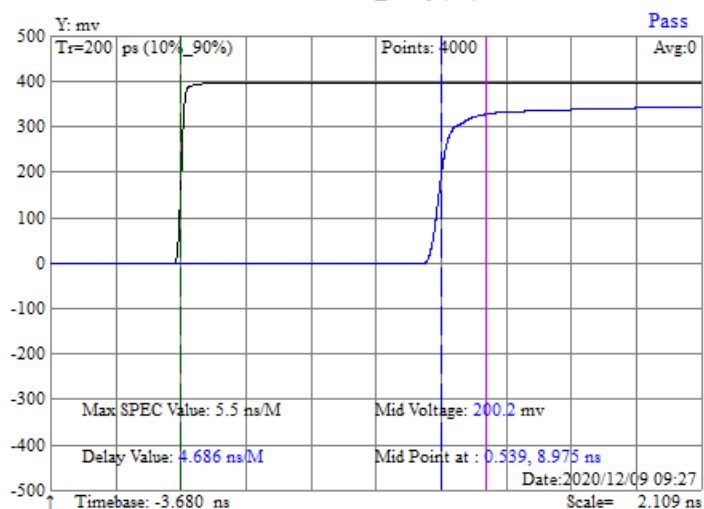
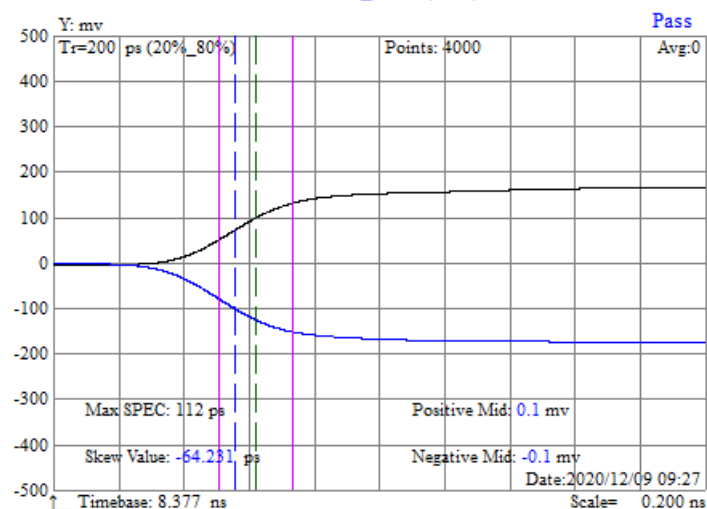
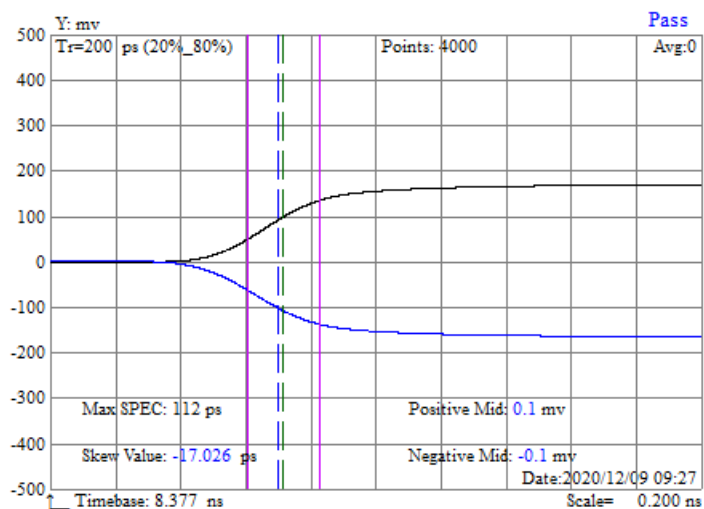
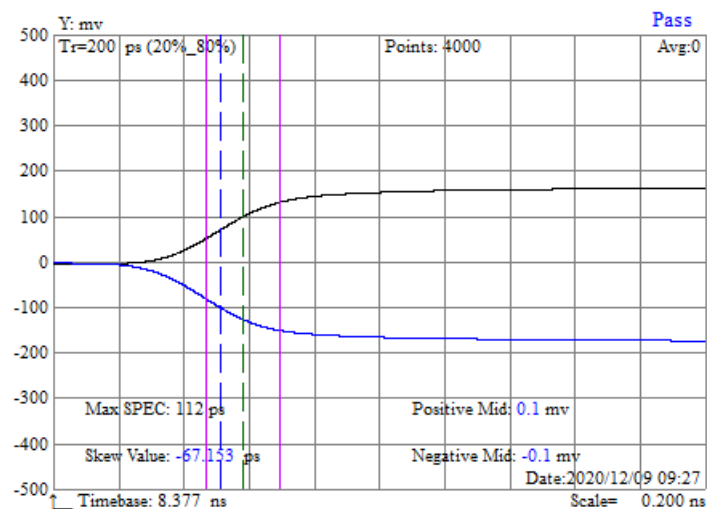
Test Graphic Summary Page 3 of 7

Differential_Impedance (D0)Differential_Impedance (D1)Differential_Impedance (D2)Connector_Impedance (CLK)Connector_Impedance (D0)Connector_Impedance (D1)

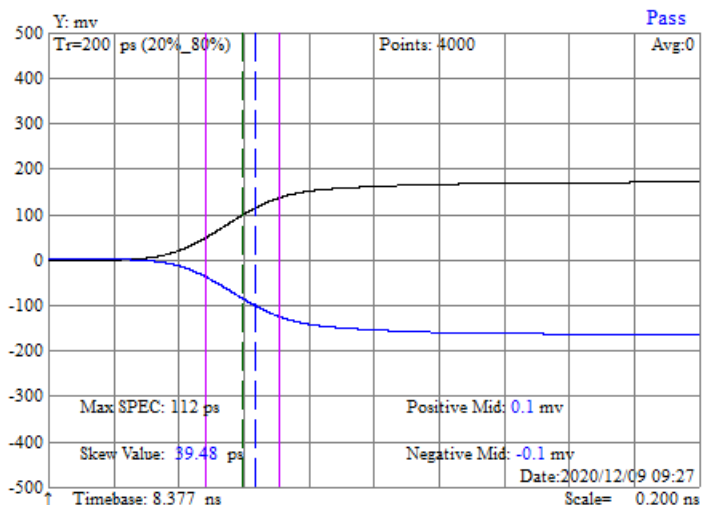
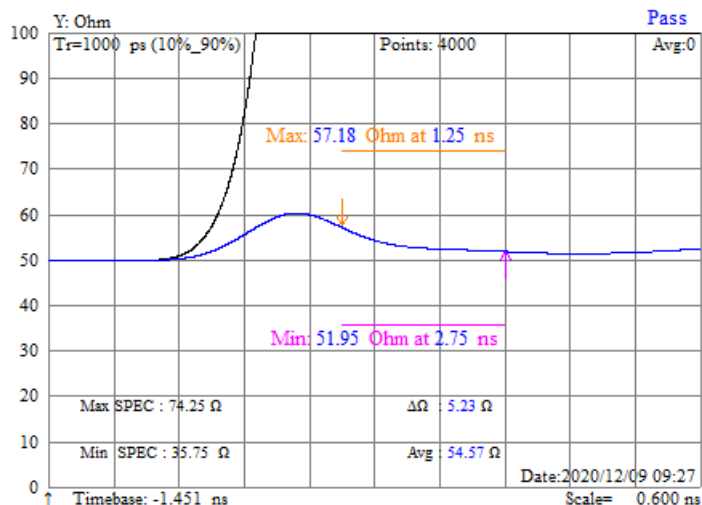
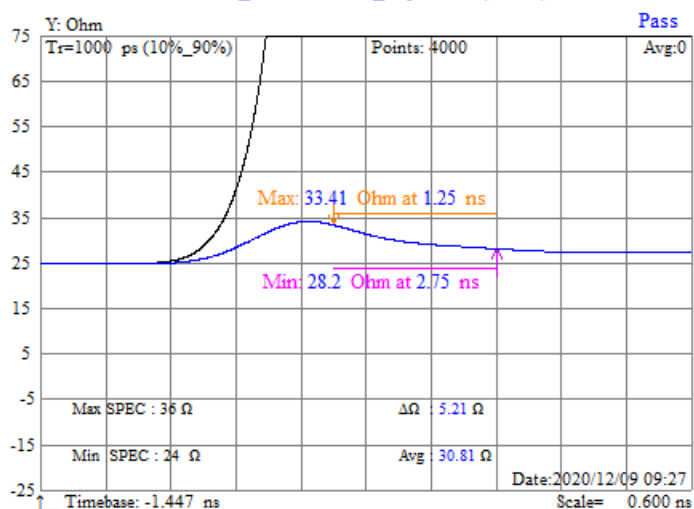
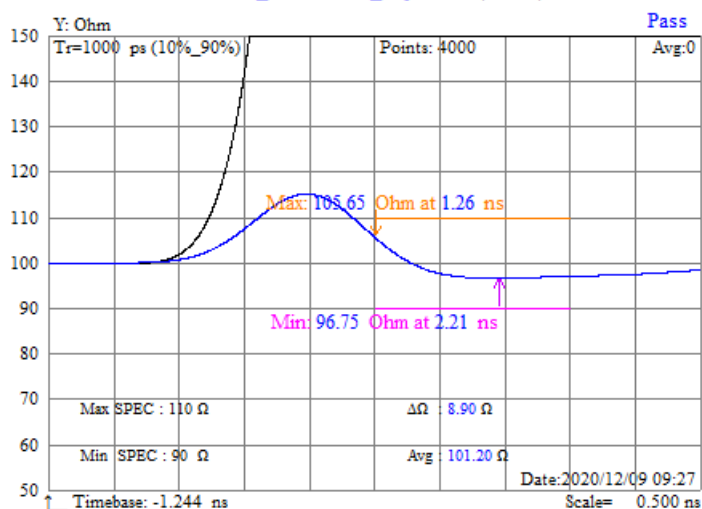
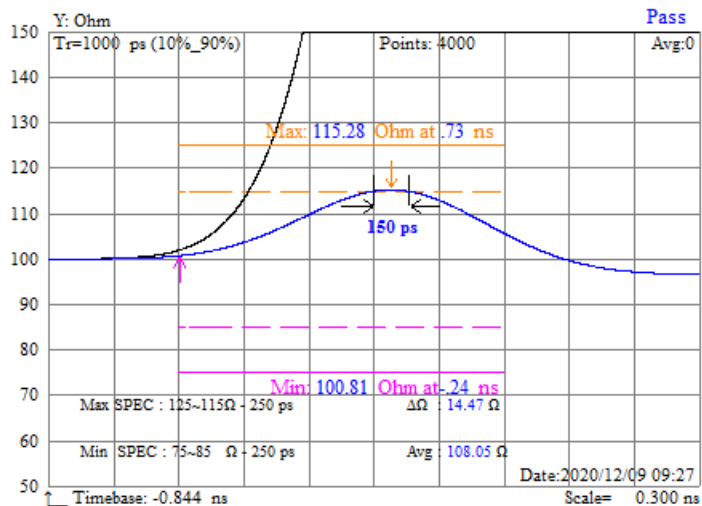
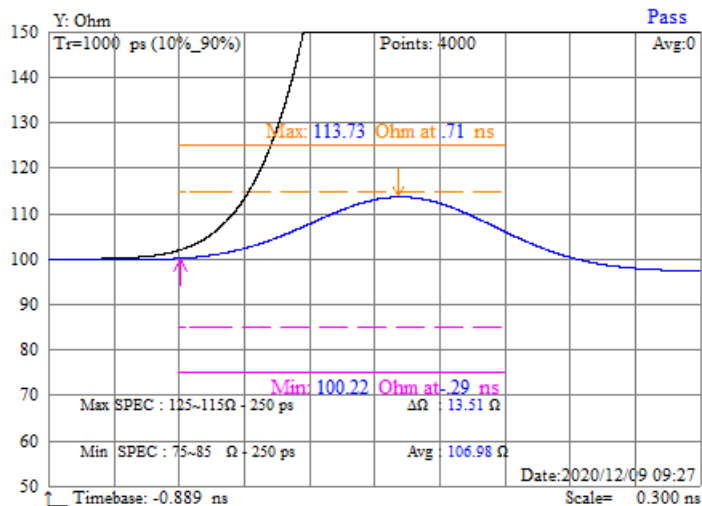
Test Graphic Summary Page 4 of 7

Connector_Impedance (D2)Connector_Impedance_FarEnd (CLK)Connector_Impedance_FarEnd (D0)Connector_Impedance_FarEnd (D1)Connector_Impedance_FarEnd (D2)Differential_Delay (CLK)

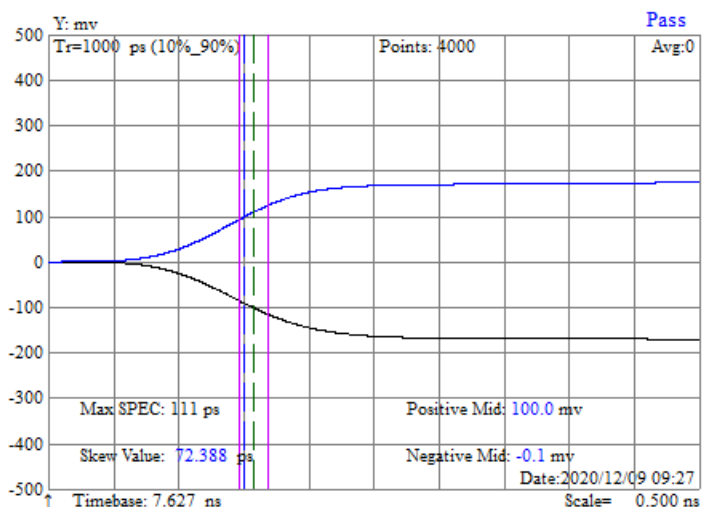
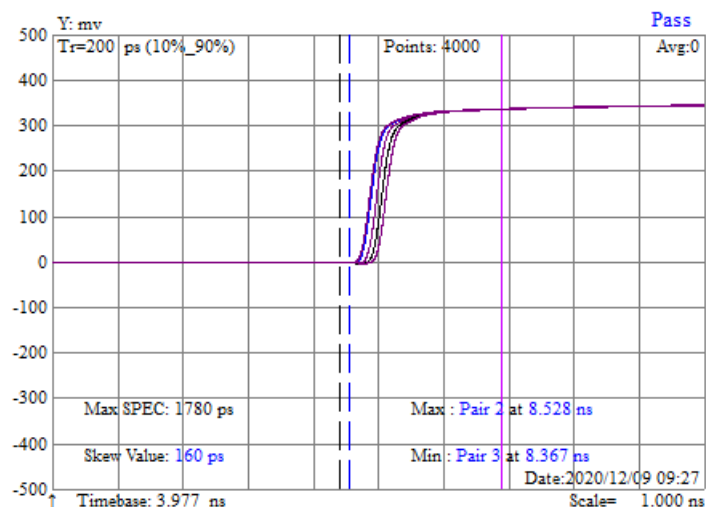
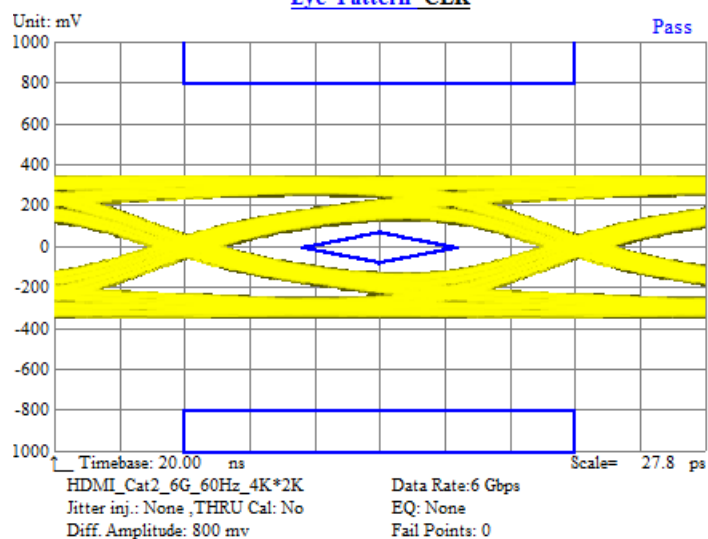
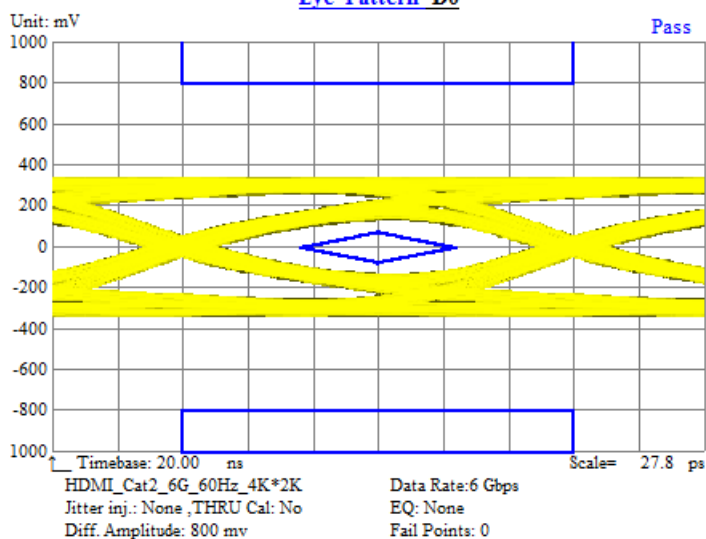
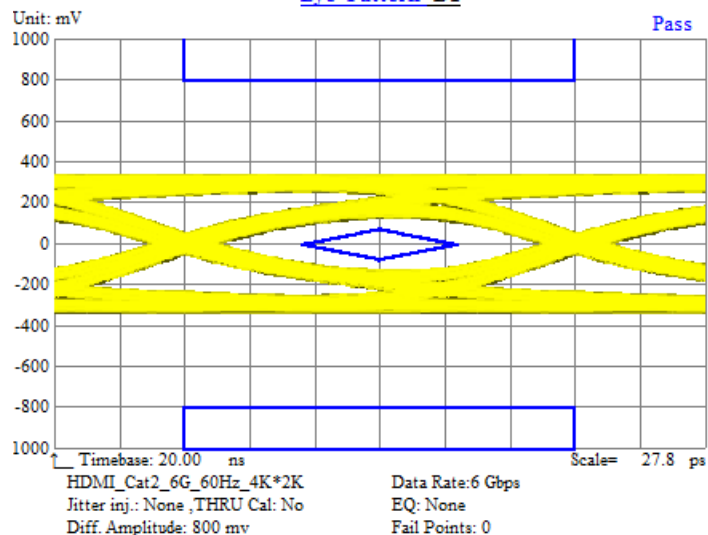
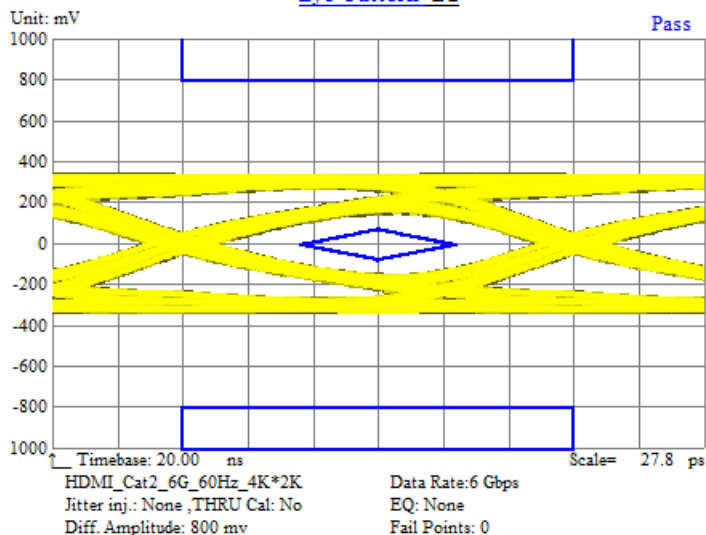
Test Graphic Summary Page 5 of 7

Differential_Delay (D0)Differential_Delay (D1)Differential_Delay (D2)IntraPair_Skew (CLK)IntraPair_Skew (D0)IntraPair_Skew (D1)

Test Graphic Summary Page 6 of 7

IntraPair_Skew (D2)HEAC_SingleEnd_Impedance (HEAC)HEAC_CommonMode_Impedance (HEAC)HEAC_Differential_Impedance (HEAC)HEAC_Connector_Impedance (HEAC)HEAC_Connector_Impedance FarEnd (HEAC)

Test Graphic Summary Page 7 of 7

HEAC_IntraPair_Skew (HEAC)InterPair_Skew ALLEye Pattern CLKEye Pattern D0Eye Pattern D1Eye Pattern D2



File E95944

Vol 1

Issued: 1985-10-15

Revised: 2007-05-19

FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

COMPONENT - WIRING HARNESSSES
(ZPFW2, ZPFW8)

Manufacturer: SEE ADDENDUM FOR MANUFACTURING LOCATIONS

Applicant: PAN-INTERNATIONAL INDUSTRIAL CORP
(219606-002) CONNGREAT DIV
97 ANSHIN RD
HSIN TIEN
TAIPEI 231 TAIWAN

Recognized Company: SAME AS APPLICANT
(219606-002)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

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Underwriters Laboratories Inc.

A handwritten signature in black ink, appearing to read 'Stephen Hewson'.

Stephen Hewson
Senior Vice President
Global Follow-Up Service Operations

A handwritten signature in black ink, appearing to read 'William R. Carney'.

William R. Carney
Director
North American Certification Program



File E95944 Vol 1 ADDENDUM TO PAGE 1 ISSUED: 1985-10-15
AUTHORIZATION PAGE REVISED: 2007-05-19

LOCATION

(438549-001) PAN-INTERNATIONAL ELECTRONICS
(MALAYSIA) SDN BHD
PLOT 4
SEBERANG JAYA INDUSTRIAL ESTATE
BANDAR SEBERANG JAYA
13700 PERAI MALAYSIA

(576913-002) PAN-INTERNATIONAL PRECISION ELECTRONIC
CO LTD
XIN LIAN HIGH-TECH INDUSTRIAL AREA
HUMEN
DONGGUAN GUANGDONG CHINA

(634459-003) PAN-INTERNATIONAL ELECTRONICS
(THAILAND) CO LTD
12/1 MOO 9 SUWANNASORN RD
THAMBOL DONGKEELEX
AMPHUR MUENG
PRACHINBURI 25000 THAILAND

塑料材料保證書

CERTIFICATE OF COMPLIANCE OF PLASTIC MATERIAL

成型廠名稱 MOLDER NAME 广宇电线电缆有限公司
購買者(成品廠)名稱 PURCHASER NAME 广宇电线电缆有限公司

料號

PART NUMBER PART DESCRIPTION HMDI TO HMDI 1.8M
數量/採購單號碼 規格書號碼
QUANTITY/P.O. NO. SPECIFICATION NO.
成型日期 出貨時間
MOLDING DATE 2021/01/06 SHIPPING DATE

原料製造商

MATERIAL MANUFACTURER 德胜/晟钊/格林特

原料型號

PVC

MATERIAL DESIGNATION

原料 UL 號碼

原料防火等級

MATERIAL UL FILE NUMBER

MATERIAL FLAMMABILITY CLASS

E252840 / E468041 / E465667

VW-1

色料或添加劑名稱，型號及使用比例(%)

COLOR CONCENTRATES OR ADDITIVES NAME, SEBS 35%, Polypropylene

MOLDEL AND PERCENTAGE USED (%) 35%, 增塑劑 13%

供應商保證 SUPPLIER GUARANTY

1. 本批產品使用之原料確實依上述規格供應，若有變更冒替，本公司願負賠償之責。

IF THERE IS ANY DEVIATION TO THE LIST ABOVE, WE WILL BE RESPONSIBLE FOR THE COST INCURRED.

2. 本批產品使用的二次料不超過 25%。〈二次料使用 0 %〉

THE REGRIND MATERIAL USED IN THIS SHIPMENT DOES NOT EXCEED 25%.

(REGRIND MATERIAL USED %)

(除非是 UL 認可零件目錄所授權的特定原料依目錄指定可超過 25%。)

(UNLESS THE SPECIFIC MATERIAL USED IS AUTHORIZED FOR GREATER THAN 25% AS SPECIFIED IN THE UL RECOGNIZED COMPONENT DIRECTORY.)

供應商簽章及蓋公司章

SUPPLIER SIGNATURE

AND COMPANY SEAL

PAN-INTERNATIONAL INDUSTRIAL CORP
S.F. LU
S.F. LU PRESIDENT