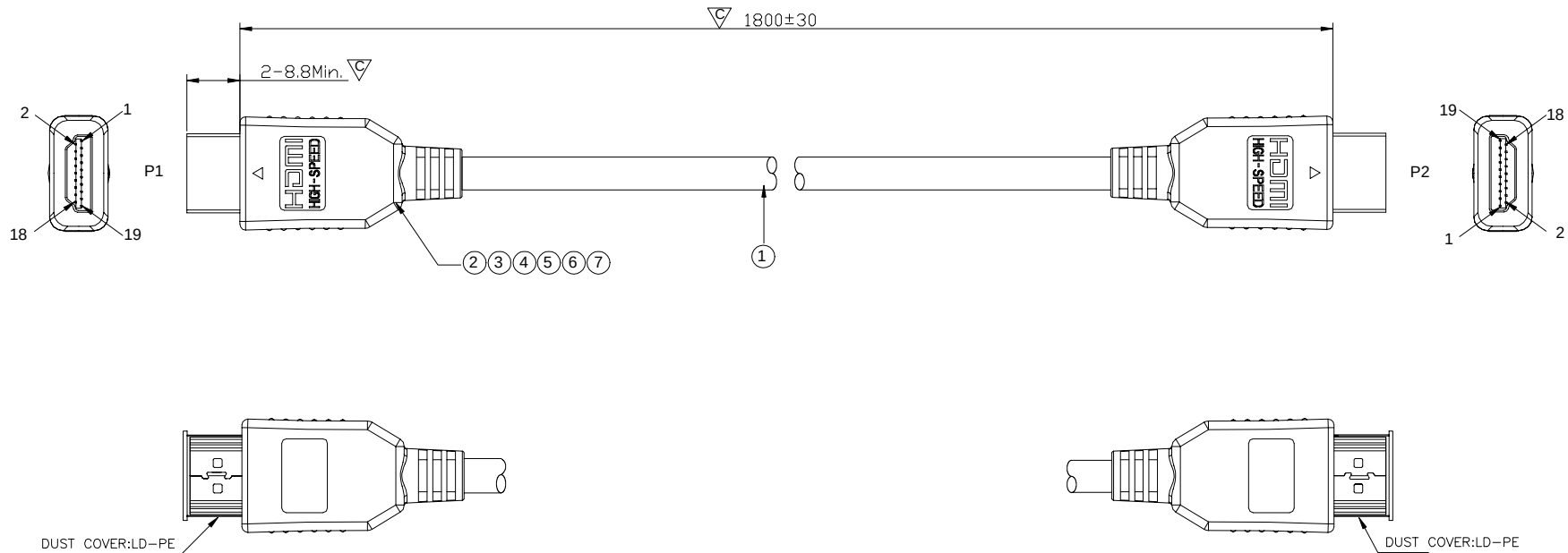


REV.	ECN. NO.	APPD.
X1	BS-19-003833	Jim Lin 02/21'19
X2	BS-19-00****	Jim Lin 02/22'19



⑩	LABEL	L*W=30*8mm	1PC
⑨	PE BAG	LDPE	1PC
⑧	Cable Tie	Cable Tie	2PCS
⑦	OUTER MOLD	PVC 45Pa Black	A/R
⑥	INNER MOLD	LDPE	A/R
⑤	HOLDER	PLASTIC HOLDER HDMI A TYPE MALE	2PCS
④	HDMI BACK SHELL	HDMI BLACK SHELL, NICKEL PLATING	2PCS
③	HDMI FRONT SHELL	HDMI FRONT SHELL, NICKEL PLATING	2PCS
②	HDMI A CONN	HDMI CONN, PIN GOLD PLATING 1u"Min.	2PCS
①	RAW CABLE	HDMI 2.0 UL20276 5P*(32AWG+EAM) +4C*32AWG PVC Jacket Black OD:5.0MM Coverage>85% (AL/MG)	A/R
NO	PART NAME	SPECIFICATION	Q'TY

X.±1	X.*±	UNITS	NAME(INTENDED USE) Eagle	 FOXCONN INTERCONNECT TECHNOLOGY LIMITED.
.X±0.8	.X*±	MAT'L	PART NO.(INTENDED USE) CUJA02A-CG021-DF	
.XX±0.50	.XX*±			CLASS: ☐ CONFIDENTIAL ☐ SECRET ☒ GENERAL
.XXX±0.200	.XXX*±	FINISH	APPD: Jim Lin 02/22'19	TITLE:HDMI CABLE ASS'Y
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED,AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED.		Q'TY	CHKD: Tiger Qi 02/22'19	DWG NO.: 605-0000-0000
			DRAW: Min Lei 02/22'19	
				SCALE SHEET REV. N/A 1/3 X2

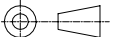
REV.	ECN. NO.	APPD.

NOTES :

1. ANY OPEN.MISSWIRING &SHORT &INTERMITTENT ARE NOT PERMITTED
2. INSULATION RESISTANCE:10M OHM MIN/300V DC
3. CONDUCTOR RESISTANCE: 2.0 OHMS.
4. HARMFUL MATERIAL CONTROL PLEASE FOLLOW DOC. No.:EPI12.
5. DIMENSIONS MARKED ∇ SHALL BE CHECKED.
6. DIMENSION SHALL BE INTERPRETED PER ASME Y14.5M-1994.
7. THE MANUFACTURE PROCESS MUST BE LEAD FREE.
8. THE CABLE EMI MUST BE TESTED(REFERENCE -4dB).
9. Certified By The Authorized Testing Center(ATC) .

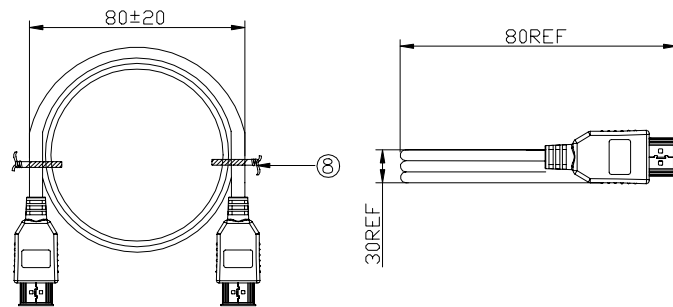
SHELL		SHELL	SHEILING
18		18	BROWN WIRE
16		16	ORANGE WIRE
15		15	BLACK WIRE
19		19	BLACK WIRE
17		17	DRAIN WIRE
14		14	WHITE WIRE
13		13	RED WIRE
12		12	WHITE WIRE
11		11	DRAIN WIRE
10		10	RED WIRE
9		9	WHITE WIRE
8		8	DRAIN WIRE
7		7	GREEN WIRE
6		6	WHITE WIRE
5		5	DRAIN WIRE
4		4	YELLOW WIRE
3		3	WHITE WIRE
2		2	DRAIN WIRE
1		1	BLUE WIRE
P1	WIRE MOTHED	P2	COLOR OF WIRE

CABLE ASSEMBLY WIRE MOTHED

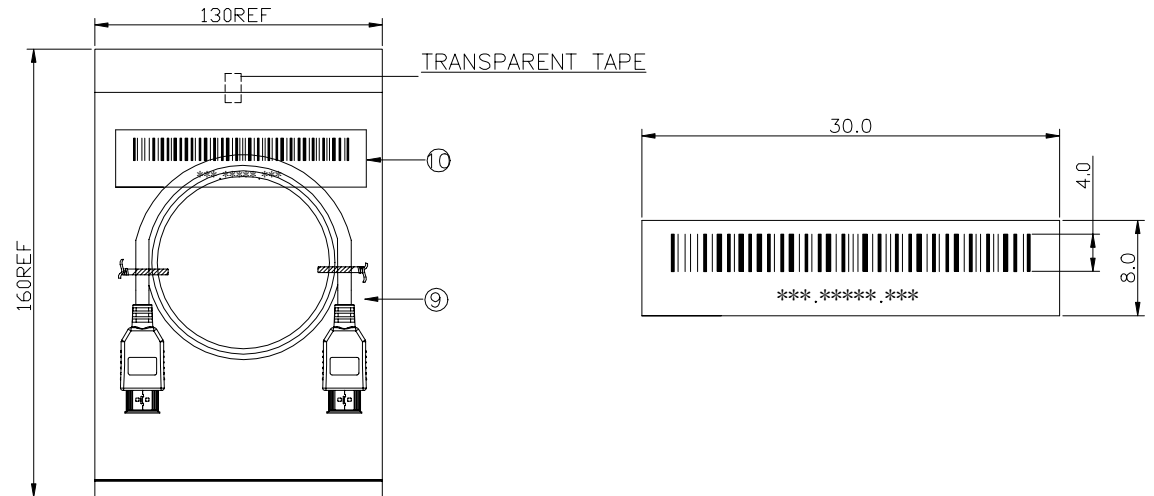
X.±1	X.*±	UNITS	NAME(INTENDED USE)	 FOXCONN INTERCONNECT TECHNOLOGY LIMITED.
.X±0.8	.X*±	MAT'L	Eagle	
.XX±0.50	.XX*±		PART NO.(INTENDED USE) CUJA02A-CG021-DF	CLASS: ☐ CONFIDENTIAL ☐ SECRET ☒ GENERAL
.XXX±0.200	.XXX*±	FINISH	APPD: Jim Lin 02/22'19	TITLE:HDMI CABLE ASS'Y
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			DRAW: Min Lei 02/22'19	
				SCALE SHEET REV. N/A 2/3 X2

REV.	ECN. NO.	APPD.

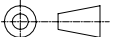
CABLE WRAPPING VIEW



CABLE PACKAGE VIEW



△ Label Material:50#Mylar;Character:Arial Regular 4pt;
Serial No.barcode format:Code 128 Code B Height:4mm.

X.±1	X.*±	UNITS	NAME(INTENDED USE) Eagle	 FOXCONN INTERCONNECT TECHNOLOGY LIMITED.
.X±0.8	.X*±	MAT'L	PART NO.(INTENDED USE) CUJA02A-CG021-DF	
.XX±0.50	.XX*±			CLASS: ☐ CONFIDENTIAL ☐ SECRET ☒ GENERAL
.XXX±0.200	.XXX*±	FINISH	APPD: Jim Lin 02/22'19	TITLE:HDMI CABLE ASS'Y
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED,AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF FOXCONN INTERCONNECT TECHNOLOGY LIMITED.		Q'TY	CHKD: Tiger Qi 02/22'19	DWG NO.: 605-0000-0000
			DRAW: Min Lei 02/22'19	
				 SCALE SHEET REV. N/A 3/3 X2

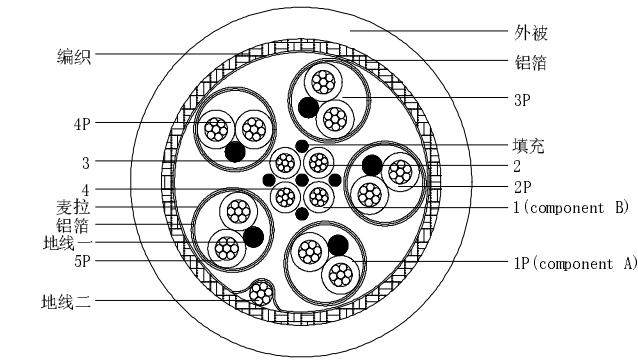
SPECIFICATION

STYLE	UL20276	DATE: 2019/03/07
SIZE	32AWG*5P+32AWG*4C	FIRST EDITION
1. STANDARD: /		
2.APPLICATION: INTERNAL WIRING OF ELECTRONIC EQUIPMENT WHERE		
NOT EXPOSED TO MOVEMENT OR MECHANICAL.		
3. CONSTRUCTION(结构):		
CONDUCTOR(导体):		
SIZE	32AWG*5P	32AWG*4C
CONSTRUCTION (导体构造)	32AWG	32AWG
MATERIAL(材质)	COPPERED METAL	COPPERED METAL
INSULATION(绝缘):		
MATERIAL(材质)	FPE	HDPE
AVG. THICK(平均厚度)	0.20mm	0.11mm
DIAMETER (APPROX)(线径)	0.64±0.05mm	0.45±0.05mm
DRAIN WIRE(地线)：	32AWG COPPERED METAL	/
AL. MYLAR(铝箔麦拉):		
COVERAGE(重迭率)	25% ↑	/
MYLAR(麦拉):		
COVERAGE(重迭率)	25% ↑	/
CABLING(集合):		
集合(CABLING)	5P+4C	
AL. MYLAR(铝箔麦拉):		
COVERAGE(重迭率)	25% ↑	
DRAIN WIRE(地线)：	28AWG COPPERED METAL	
OUTSIDE-SHIELD(外部屏蔽):		
MATERIAL(材质)	AL-ALLOY	
SPIRAL SHIELD(缠绕)	0.12mm	
COVERAGE(遮蔽率)	85% ↑	
JACKET(被覆):		
MATERIAL(材质)	PVC	
O.D. (线径)	5.0±0.20mm	
COLOR(颜色)	AS CUSTOMER'S REQUIREMENT	
MARKING(印字)	High Speed HDMI™ Cable with Ethernet E246588 9J AWM STYLE 20276 80℃ 30V VW-1 SK Broadband	
4.ELECTRICAL&PHYSICAL PROPERTIES(电气性能及物理性能)		
ITEM	32AWG*5P	32AWG*4C
CONDUCTOR RESISTANCE(导体电阻) (20℃)	MAX 542Ω/KM	MAX 542Ω/KM
INSULATION RESISTANCE(绝缘电阻)	MIN 2MΩ/KM	MIN 2MΩ/KM
SPARK TEST(火花测试)	DC 1.5KV / 0.15 Sec NO BREAKING	
IMPEDANCE(特性阻抗)	100±10Ω	/

INSULATION (絕緣)	UNAGED (老化前)	TENSILE STRENGTH (抗張強度)	/	MIN 2400PSI
		ELONGATION (伸長率)	/	MIN 300%
JACKET (被覆)	UNAGED (老化前)	TENSILE STRENGTH (抗張強度)	MIN 1500PSI	
		ELONGATION (伸長率)	MIN 100%	
	AGED (老化後)	TENSILE STRENGTH (抗張強度)	MIN 70%	
		ELONGATION (伸長率)	MIN 65%	
DEFORMATION TEST (加熱變形)		JACKET(被覆)	MIN 50%	
COLD BEND TEST(冷彎測試)			-15 ± 1 °C/ 4HR	NO CRACKING
HEAT SHOCK TEST(熱衝擊測試)			121 ± 1 °C/ 1HR	NO CRACKING
FLAME TEST(燃燒測試)			PASS VW-1	

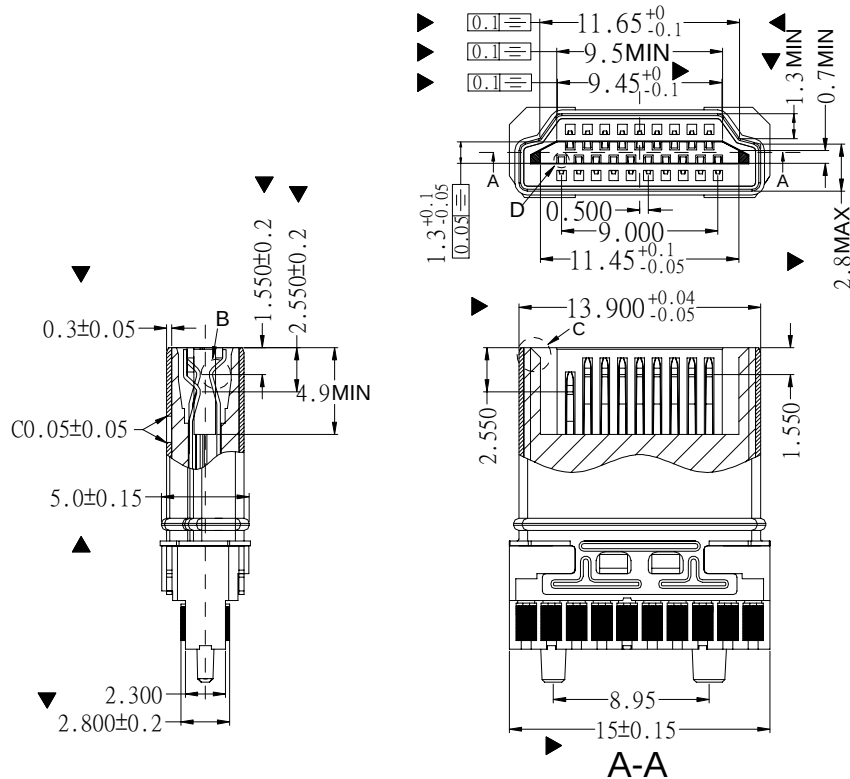
5.CONSTRUCTION:

構造圖

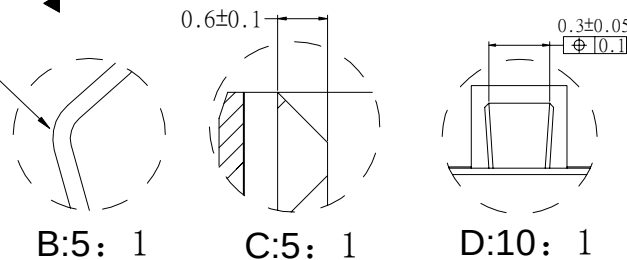


芯線顏色表(INSULATION COLOR)

32AWG*5P			32AWG*4C	
排列	芯线顏色	铝箔顏色	排列	芯线顏色
1P	蓝	棕	1	黑
	白		2	橙
2P	蓝	红	3	白
	白		4	棕
3P	蓝	蓝		
	白			
4P	蓝	绿		
	白			
5P	蓝	黄		
	白			



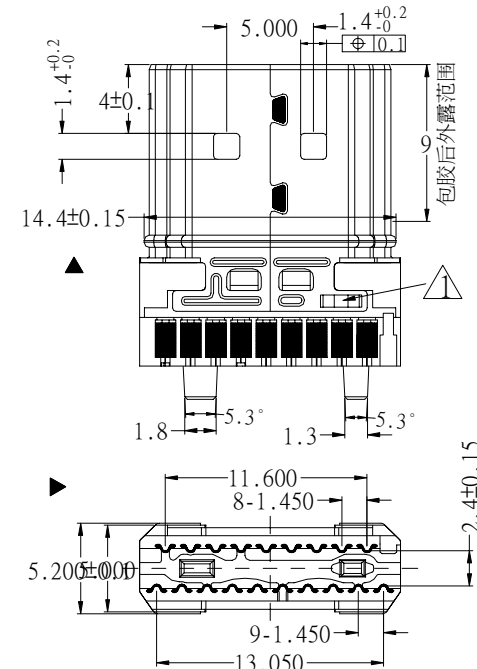
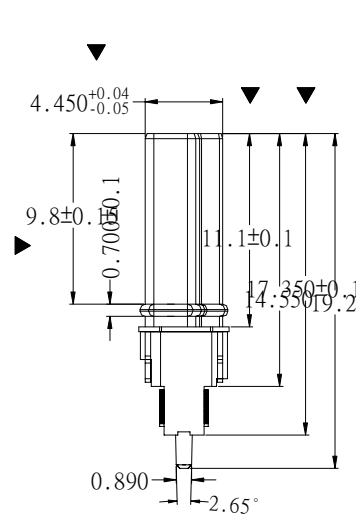
PIN针为单面刷金,膜
厚重点测量部分为接
触最高点,金层膜
厚为1U "



- 注：
1. 未标示公差之尺寸依照一般公差。
 2. 标有▲的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。

一般公差

0~10 ±0.1
>10~50 ±0.15
>50~100 ±0.2
>100~ ±0.3
ANGULAR ±2°



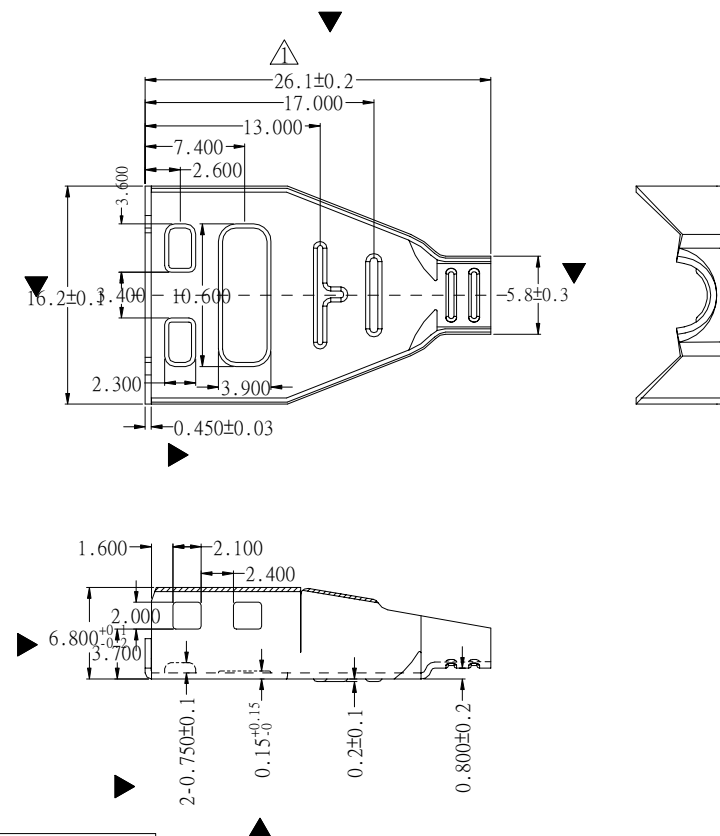
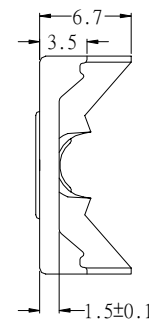
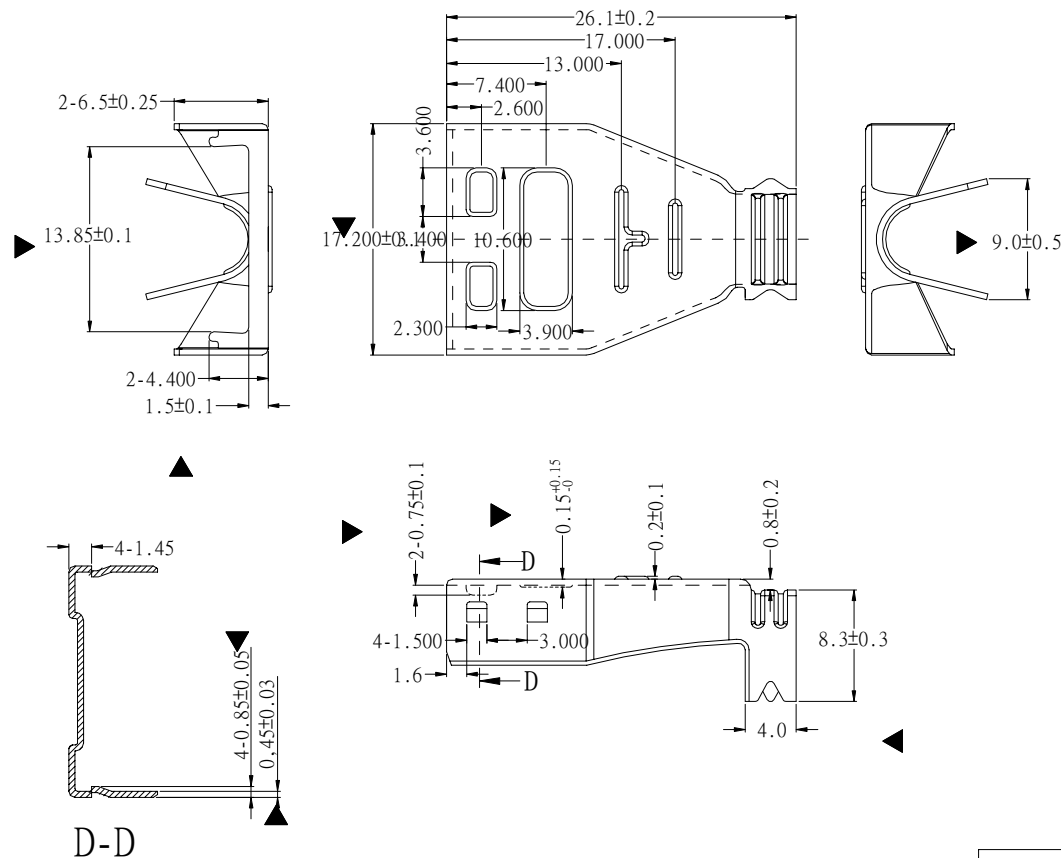
4	锡	19PCS	直径0.7无铅锡丝,含香含量2.0%	/
3	PIN针端子	19PCS	C5191 HV200-220度 T=0.2mm	镍底>40U" 锡80-100U",金G/F
2	铁壳	1PCS	SPCC HV110-140度 T=0.28mm	铜底>100U" 镀镍80-100U"
1	前后盖胶芯	各1PCS	LCP BLACK	/
NO	零件名称	数量	简要资料	表面处理

PROPRIETARY NOTE:
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FOR WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF HOTRON PRECISION ELECTRONIC INDUSTRIAL CO.,LTD

核准:	
审核:	TITLE: HDMI - 主體
绘图:	CUST P/N:
	DWG NO:
单位 mm [INCH]	页次 1 OF 1

上盖图

下盖图



D-D

注:

1. 未标示公差之尺寸依照一般公差。
2. 标有▲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)。
6. 马口铁成份:铁>98%

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	$\pm 2^\circ$

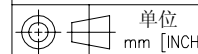
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核准:

审核:

绘图:



单位

mm [INCH]

页次

1

OF

1

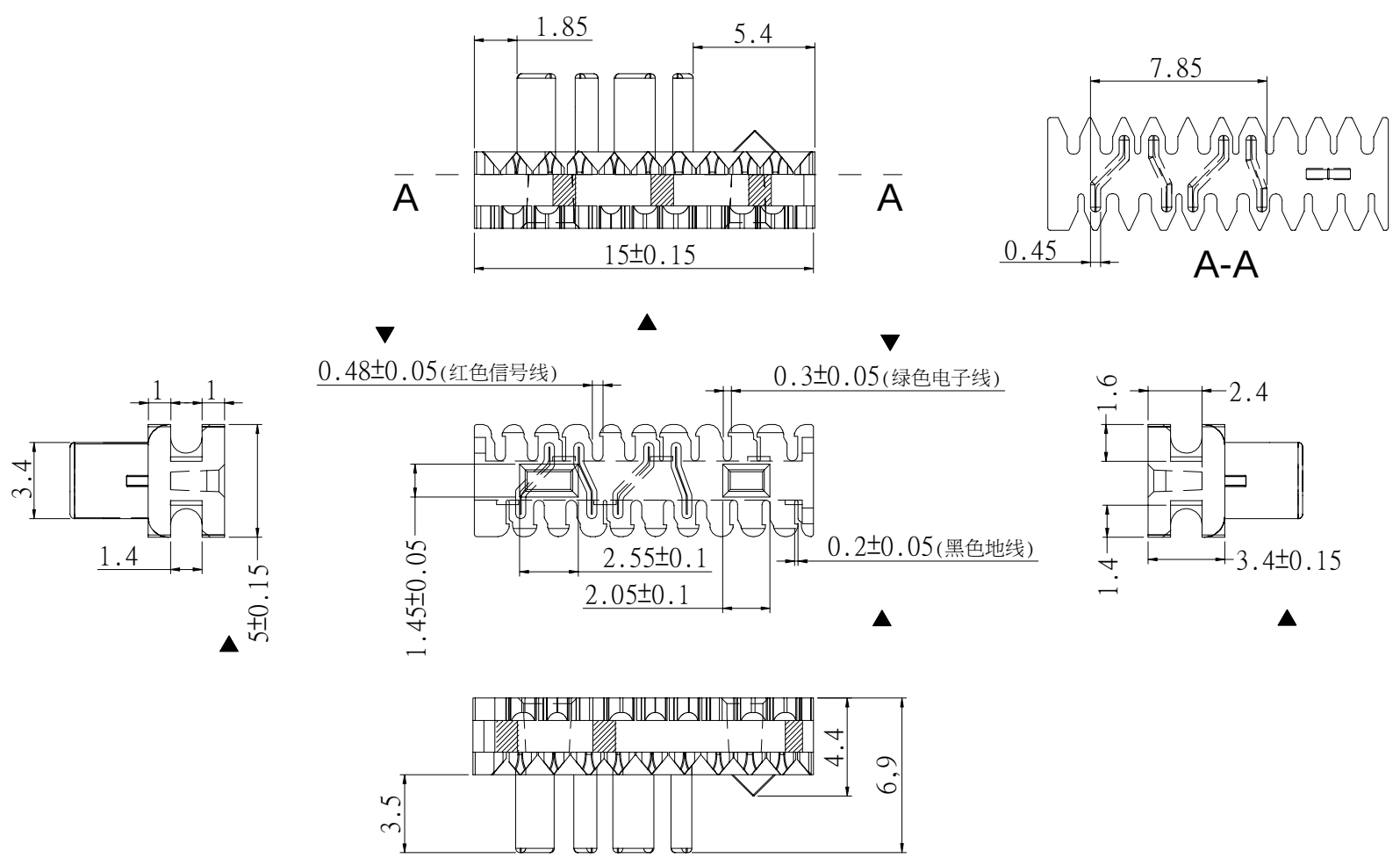
TITLE:

CUST P/N:

DWG NO:

HDMI——上下盖

A
B
C
D
E
F



注：
1. 未标示公差之尺寸依照一般公差。
2. 标有▲的尺寸为重点检验尺寸。
3. 产品不可有太大铍锋、毛刺、毛边。
4. 线槽实配，用手工或机压排好线后不可松动、不可有线没到底，支架不可变形。
5. 支架后塞孔与胶芯后盖实配需好装，但用手需轻甩不掉。
6. 泥龙料材质成份：树脂:70% 玻璃纤维:30%

一般公差		PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL AND PROPRIETARY TO HOTRON PRECISION ELECTRONIC INDUSTRIAL CO.,LTD AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF HOTRON PRECISION ELECTRONIC INDUSTRIAL CO.,LTD	
0~4 ±0.1		核准:	
>4~16 ±0.15		审核:	TITLE:
>16~64 ±0.25		绘图:	CUST P/N:
>64~250 ±0.35			DWG NO:
>250~500 ±0.45			
>500~ ±0.55			
ANGLE ±1°			
单位 mm [INCH]			
		页次	1 OF

HDMI - 排线夹

Test Equipment List :

Equipment	Manufacture	P/N	S/N	Description
Network Analyzer	Agilent	E5071C	MY46522067	4 Port, 300 kHz to 20 GHz
Time Domain Reflectometry	Agilent	ENA-TDR	MY46522067	
Pattern Generator	Agilent	ENA-TDR	MY46522067	

Device Under Test (DUT) & Test Environment Information :

P / N:	D0008180RFRCM	Specifications:	
DUT Lot:		DUT Bundle:	
DUT Length(M):	1.8	Test Pair:	5 Pairs
Temperature(°C):	20	Humidity(%):	60
Remark:	20190301067		

Test Result Summary:

1	NA Attenuation	Pass
2	NA FEXT	Pass
3	NA HEAC Attenuation	Pass
4	TDR DifferentialIMPZ	Pass
5	TDR ConnectorIMPZ	Pass
6	TDR FE ConnectorIMPZ	Pass
7	TDT DifferentialDelay	Pass
8	TDT IntraPairSkew	Pass
9	TDT InterPairSkew	Pass
10	TDR HEAC SingleEnd IMPZ	Pass
11	TDR HEAC CommonModeIMPZ	Pass
12	TDR HEAC DifferentialIMPZ	Pass
13	TDR HEAC ConnectorIMPZ	Pass
14	TDR HEAC FE ConnectorIMPZ	Pass
15	TDT HEAC IntraPairSkew	Pass
Test Result:		Pass

TEST Data Summary Page 1 of 2

NA Attenuation

起始頻率	結束頻率	規格上限	規格下限	CLK	D0	D1	D2
0.3	0.3	--	-5	-0.119	-0.120	-0.128	-0.120
825	825	--	-5	-4.035	-4.326	-4.302	-4.509
2475	2475	--	-12	-7.962	-8.606	-8.137	-11.058
4125	4125	--	-20	-11.311	-11.817	-11.515	-15.718
5100	5100	--	-25	-13.569	-14.263	-14.326	-17.566
0.3	5100	--	5.00→-25.0	-4.035	-4.326	-4.302	-12.724
MHz	MHz	dB	dB	Pass	Pass	Pass	Pass

NA FEXT

起始頻率	結束頻率	規格上限	規格下限	CLK-D0	CLK-D1	CLK-D2	D0-D1	D0-D2	D1-D2
1	5100	-20	--	-29.966	-32.313	-38.361	-35.470	-33.673	-29.843
MHz	MHz	dB	dB	Pass	Pass	Pass	Pass	Pass	Pass

NA HEAC Attenuation

起始頻率	結束頻率	規格上限	規格下限	HEAC
1	10	--	-1.6	-0.437
10	100	--	-5	-1.389
100	200	--	-7.1	-2.105
MHz	MHz	dB	dB	Pass

TDR DifferentialIMPZ , Tr= 200 ps (10%-90%)

對數名稱	規格上限	規格下限	最大阻抗	最小阻抗	差異值	平均值	狀態
CLK	110	90	103.63	101.92	1.71	102.78	Pass
D0	110	90	99.95	98.92	1.03	99.44	Pass
D1	110	90	103.76	102.72	1.04	103.24	Pass
D2	110	90	102.2	101.2	1.00	101.70	Pass
單位 :	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	--

TDR ConnectorIMPZ , Tr= 200 ps (10%-90%)

對數名稱	規格上限	規格下限	最大阻抗	最小阻抗	凸點寬度	差異值	狀態
CLK	125~115,250	75~85,250	111.66	99.94	0.0	11.72	Pass
D0	125~115,250	75~85,250	110.78	98.21	0.0	12.57	Pass
D1	125~115,250	75~85,250	114.51	101.79	0.0	12.72	Pass
D2	125~115,250	75~85,250	113.91	100.74	0.0	13.17	Pass
單位 :	Ohm,ps	Ohm,ps	Ohm	Ohm	ps	Ohm	--

TDR FE ConnectorIMPZ , Tr= 200 ps (10%-90%)

對數名稱	規格上限	規格下限	最大阻抗	最小阻抗	凸點寬度	差異值	狀態
CLK	125~115,250	75~85,250	109.94	100.49	0.0	9.45	Pass
D0	125~115,250	75~85,250	110.2	98.16	0.0	12.04	Pass
D1	125~115,250	75~85,250	114.92	101.36	0.0	13.56	Pass
D2	125~115,250	75~85,250	111.57	99.59	0.0	11.98	Pass
單位 :	Ohm,ps	Ohm,ps	Ohm	Ohm	ps	Ohm	--

TDI DifferentialDelay , Tr= 200 ps (10%-90%)

對數名稱	規格上限	規格下限	延遲值	狀態
CLK	5.2	--	4.786	Pass
D0	5.2	--	4.934	Pass
D1	5.2	--	4.879	Pass
D2	5.2	--	4.772	Pass
單位 :	ns/M	ns/M	ns/M	--

TEST Data Summary Page 2 of 2

TDT IntraPairSkew , Tr= 200 ps (10%-90%)

對數名稱	規格上限	規格下限	延遲差值	狀態
CLK	112	--	22.81	Pass
D0	112	--	13.04	Pass
D1	112	--	29.24	Pass
D2	112	--	86.45	Pass
單位：	ps	ps	ps	--

TDT InterPairSkew , Tr= 200 ps (10%-90%)

對數名稱	規格上限	規格下限	延遲差值	狀態
ALL	1780	--	405.37	Pass
單位：	ps	ps	ps	--

TDR HEAC SingleEnd IMPZ , Tr= 1000 ps (10%-90%)

對數名稱	規格上限	規格下限	最大阻抗	最小阻抗	差異值	平均值	狀態
HEAC	74.25	35.75	63.17	55.1	8.07	59.14	Pass
單位：	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	--

TDR HEAC CommonModeIMPZ , Tr= 1000 ps (10%-90%)

對數名稱	規格上限	規格下限	最大阻抗	最小阻抗	差異值	平均值	狀態
HEAC	36	24	34.1	29.53	4.57	31.82	Pass
單位：	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	--

TDR HEAC DifferiaIMPZ , Tr= 1000 ps (10%-90%)

對數名稱	規格上限	規格下限	最大阻抗	最小阻抗	差異值	平均值	狀態
HEAC	110	90	101.44	100.54	0.90	100.99	Pass
單位：	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	--

TDR HEAC ConnectorIMPZ , Tr= 1000 ps (10%-90%)

對數名稱	規格上限	規格下限	最大阻抗	最小阻抗	凸點寬度	差異值	狀態
HEAC	125~115,250	75~85,250	112.99	101.47	0.0	11.52	Pass
單位：	Ohm,ps	Ohm,ps	Ohm	Ohm	ps	Ohm	--

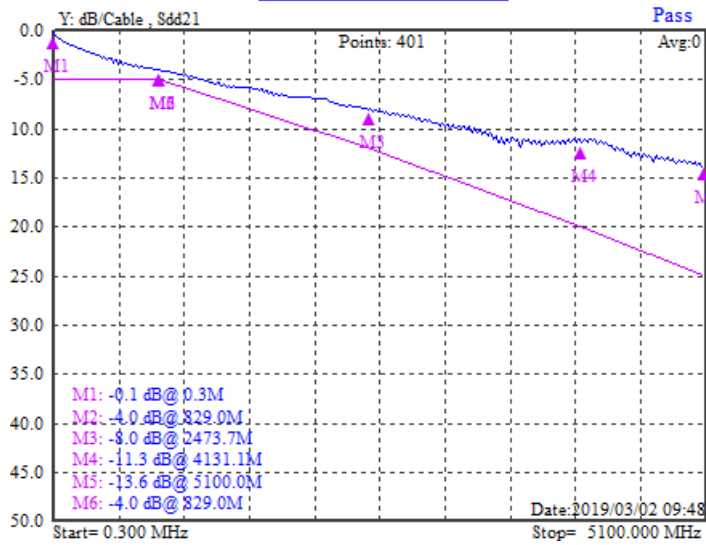
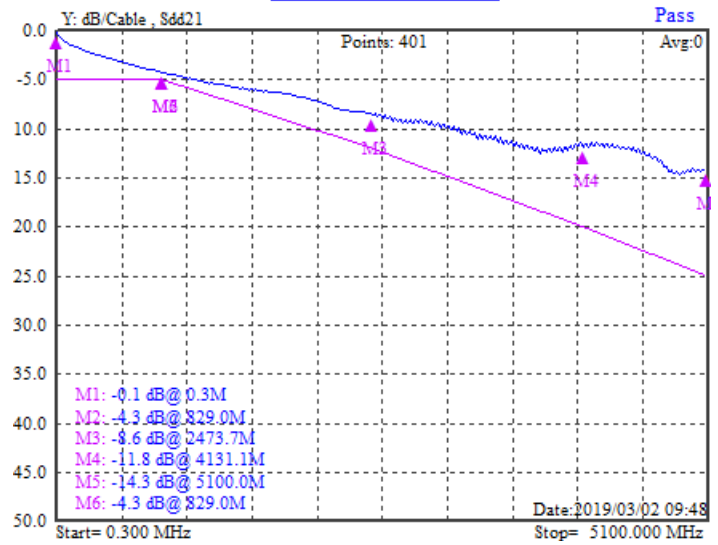
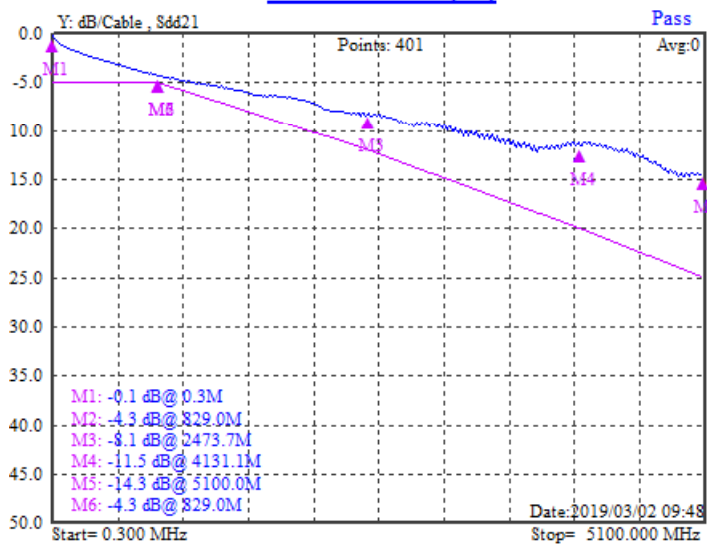
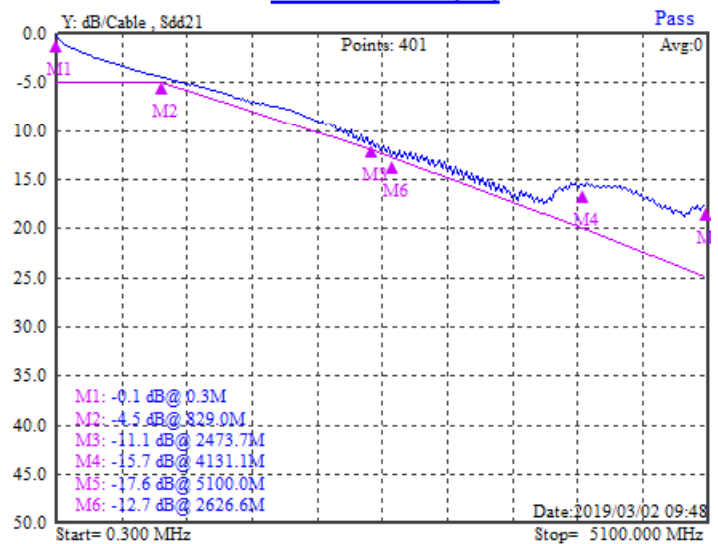
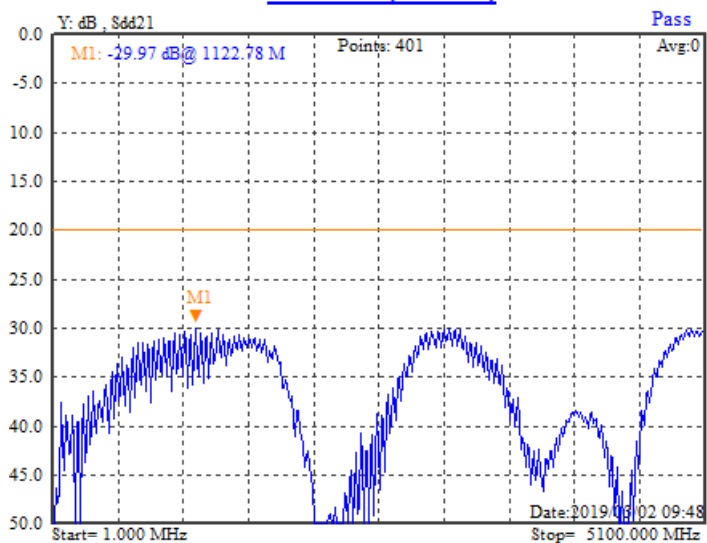
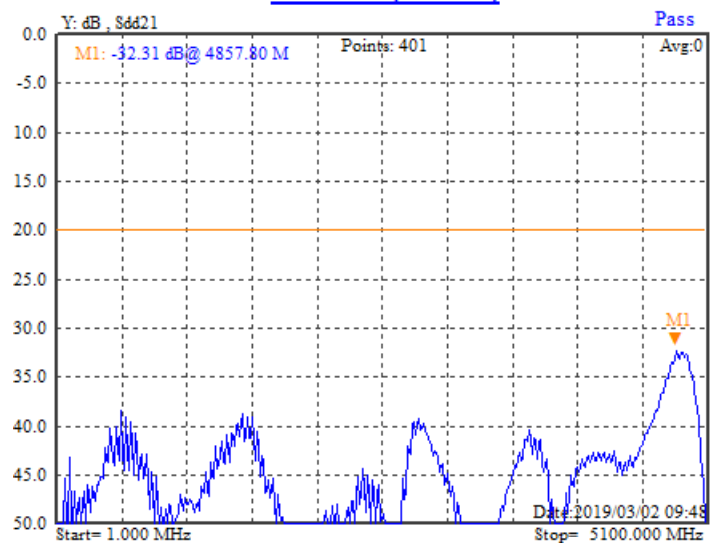
TDR HEAC FE ConnectorIMPZ , Tr= 1000 ps (10%-90%)

對數名稱	規格上限	規格下限	最大阻抗	最小阻抗	凸點寬度	差異值	狀態
HEAC	125~115,250	75~85,250	114.68	100.08	0.0	14.60	Pass
單位：	Ohm,ps	Ohm,ps	Ohm	Ohm	ps	Ohm	--

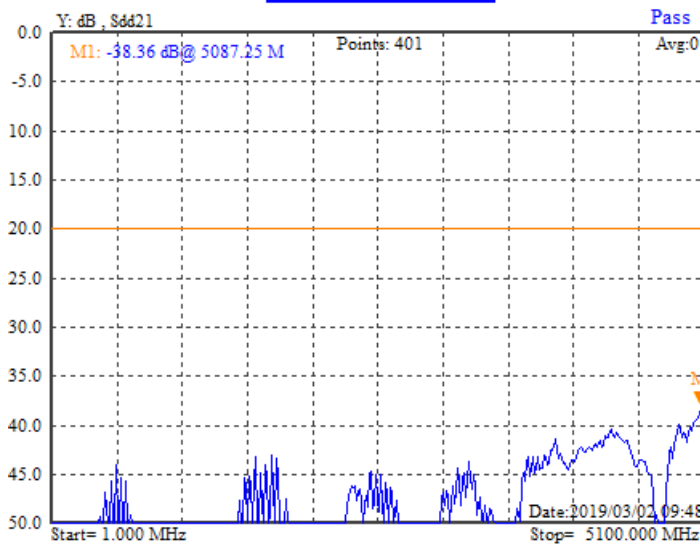
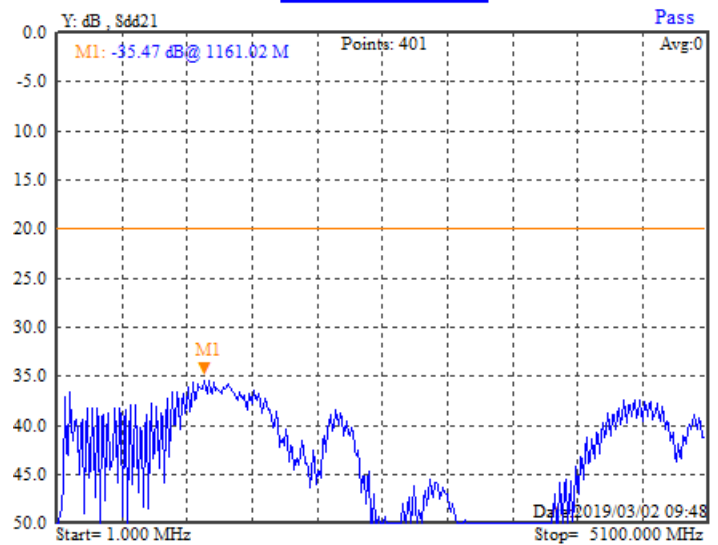
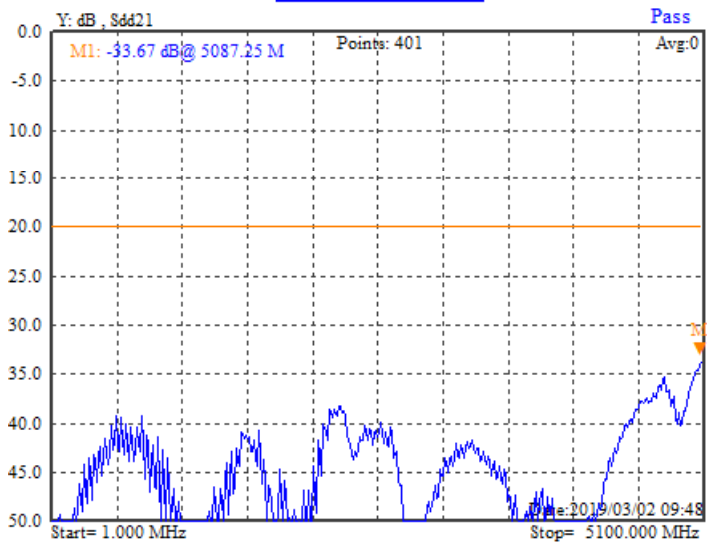
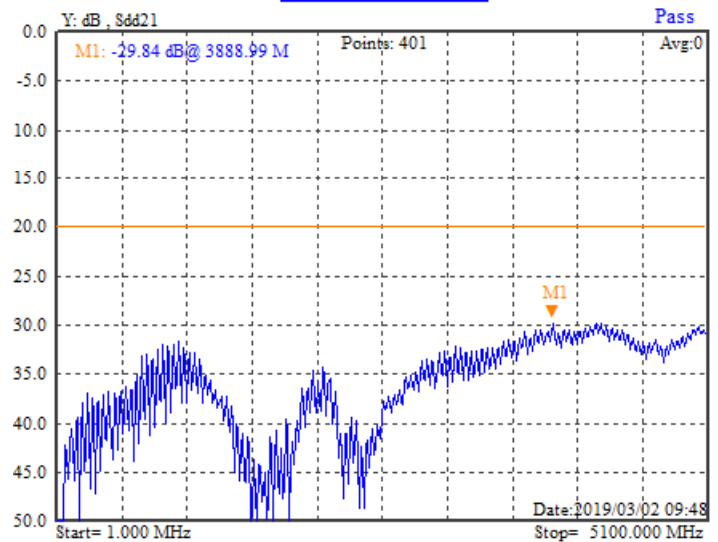
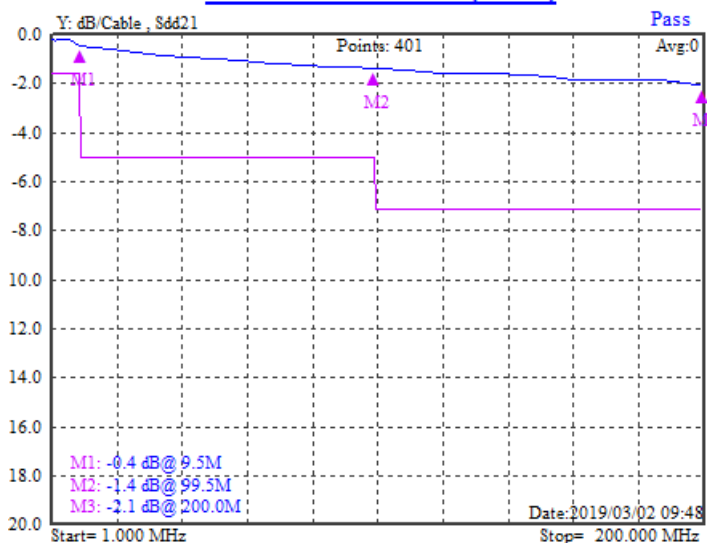
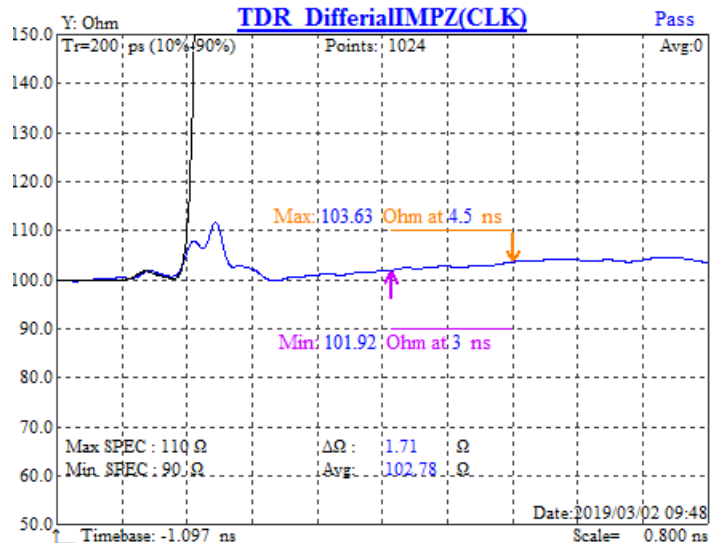
TDT HEAC IntraPairSkew , Tr= 1000 ps (10%-90%)

對數名稱	規格上限	規格下限	延遲差值	狀態
HEAC	111	--	20.666	Pass
單位：	ps	ps	ps	--

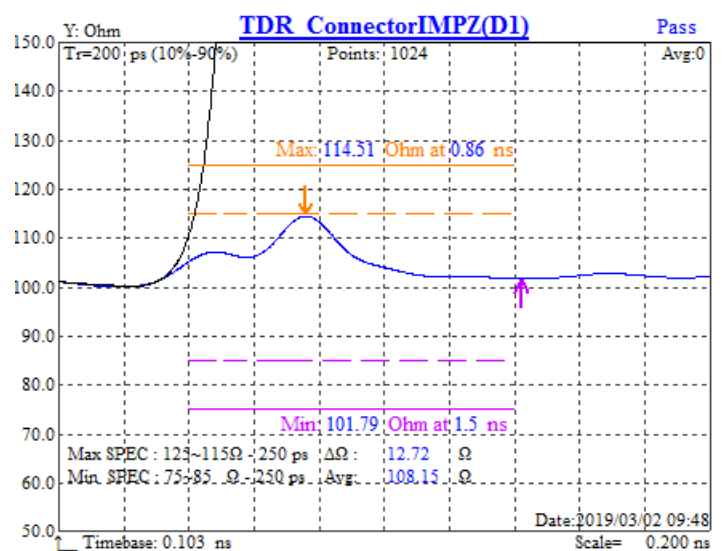
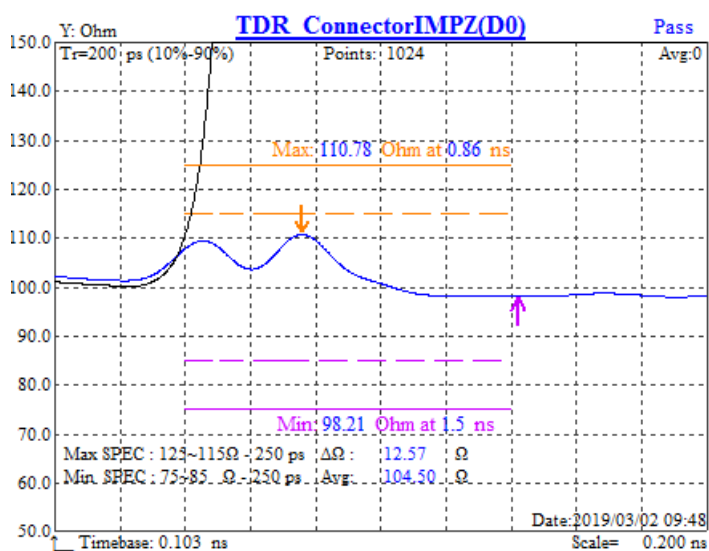
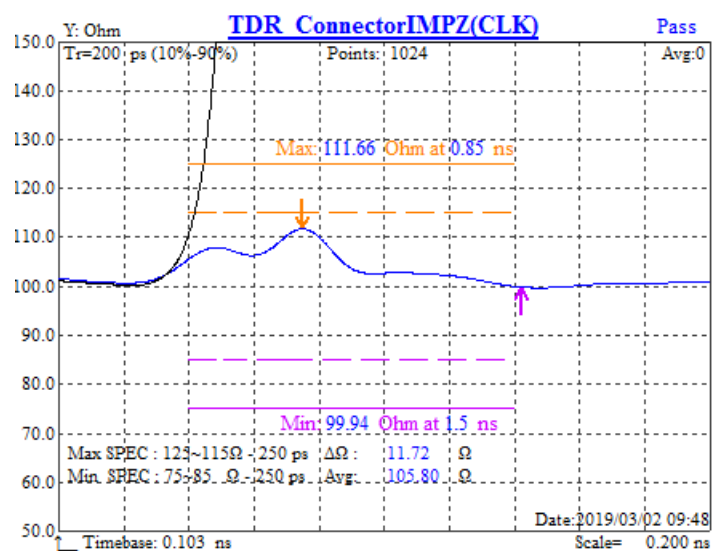
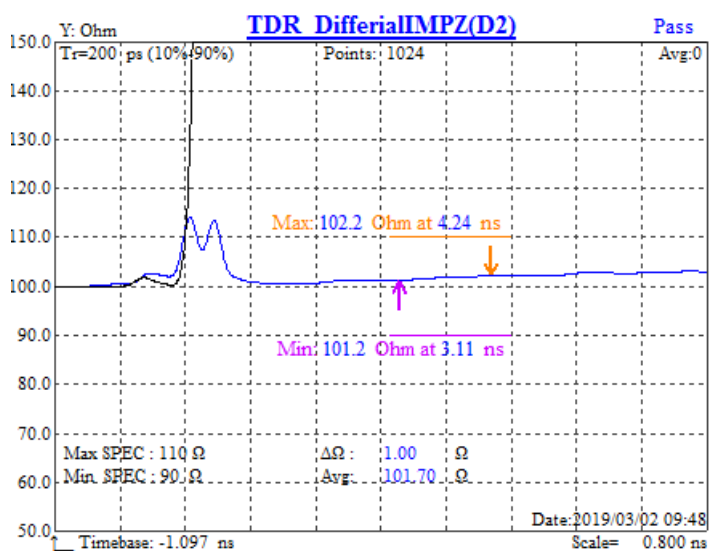
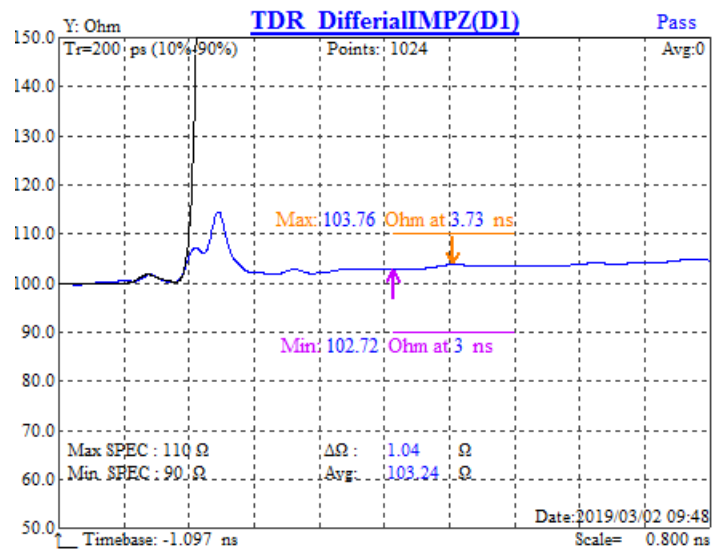
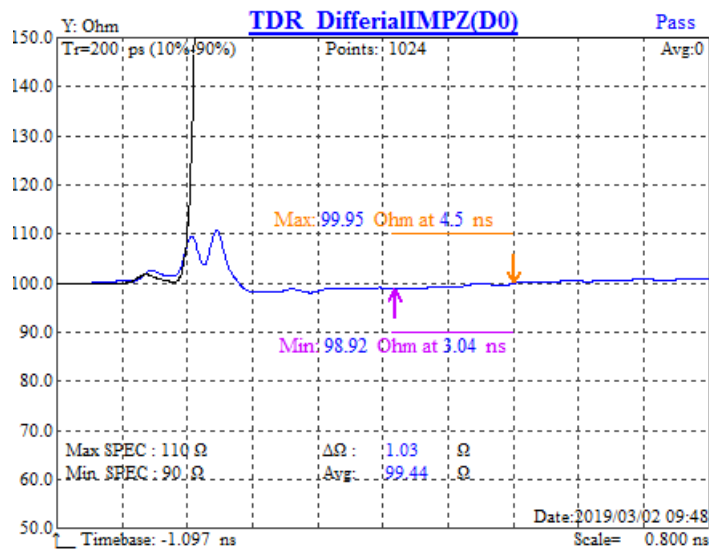
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NA Attenuation(CLK)NA Attenuation(D0)NA Attenuation(D1)NA Attenuation(D2)NA FEXT(CLK-D0)NA FEXT(CLK-D1)

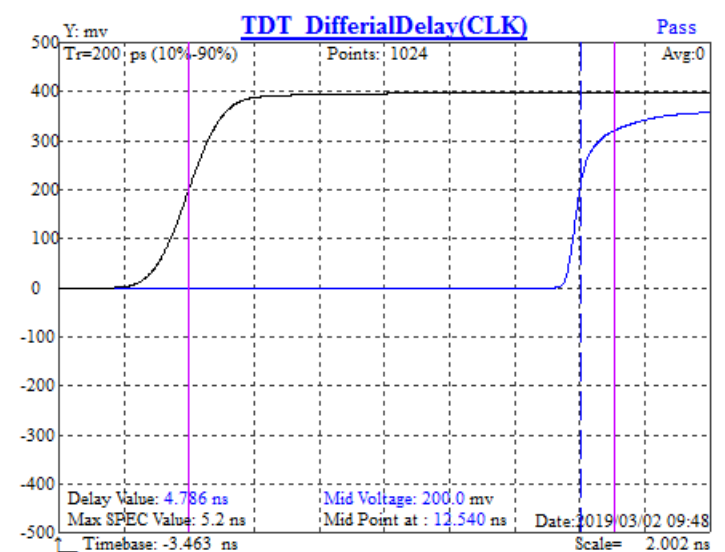
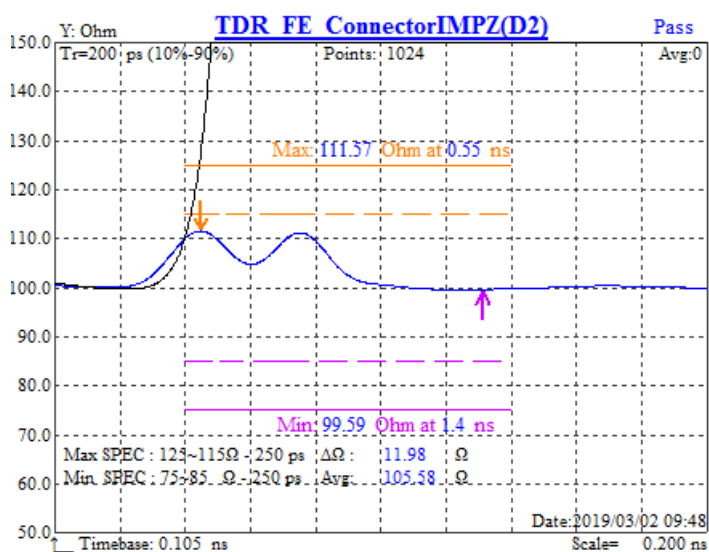
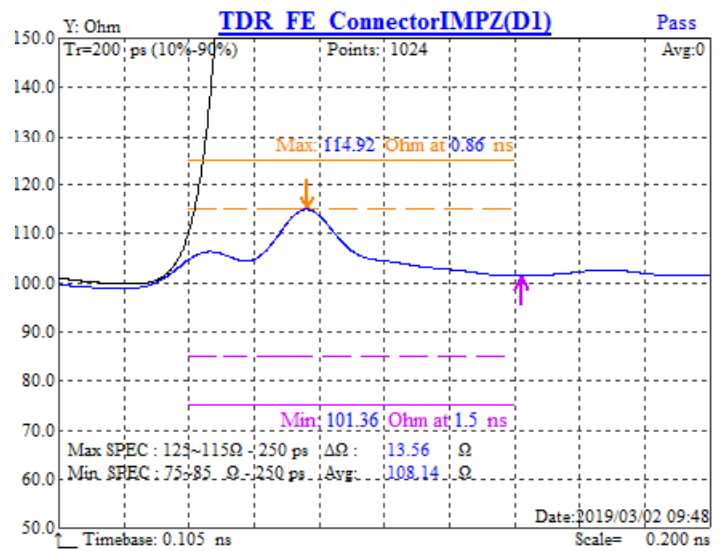
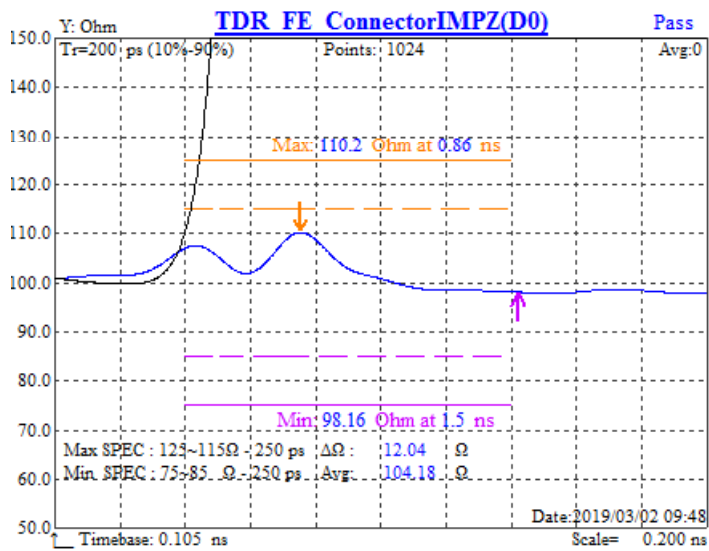
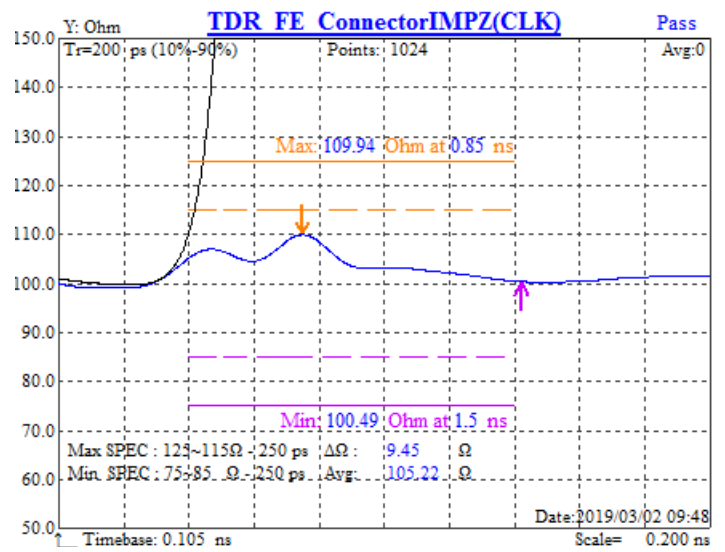
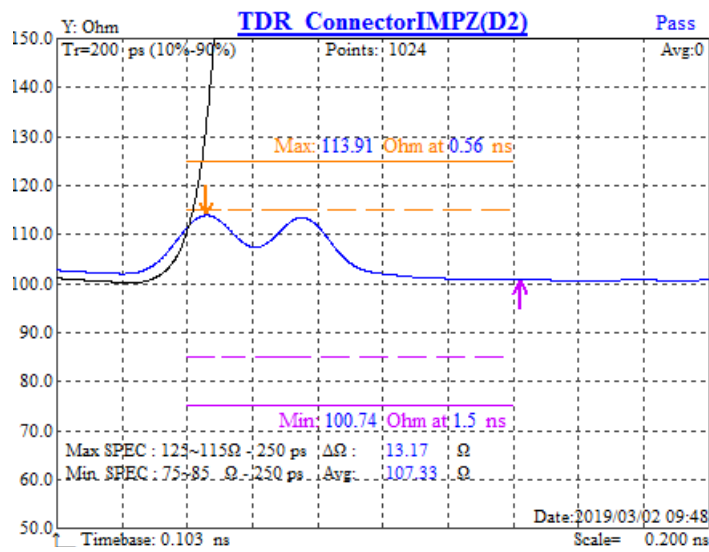
TEST Graphic Summary Page 2 of 7

NA FEXT(CLK-D2)NA FEXT(D0-D1)NA FEXT(D0-D2)NA FEXT(D1-D2)NA HEAC Attenuation(HEAC)TDR DifferentialIMPZ(CLK)

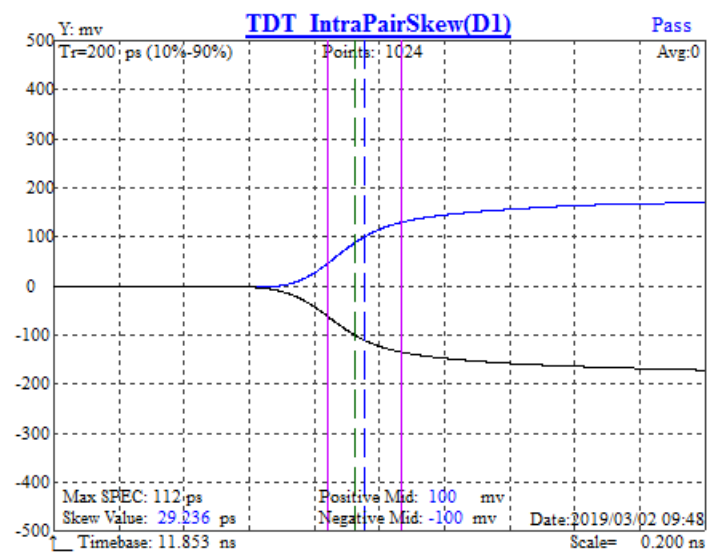
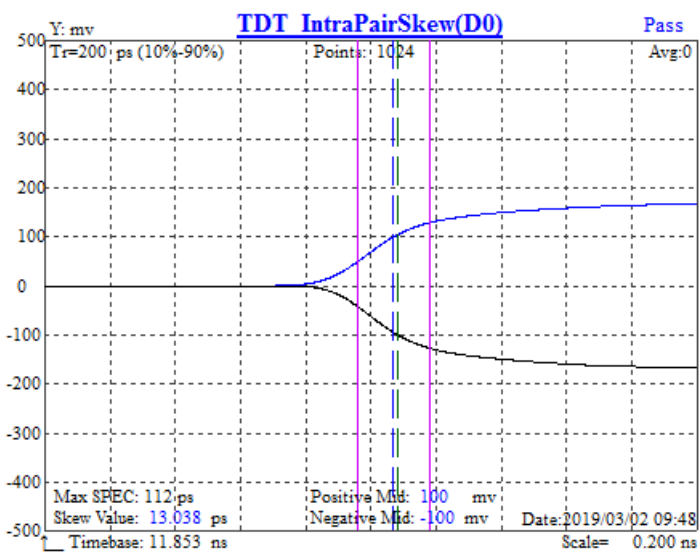
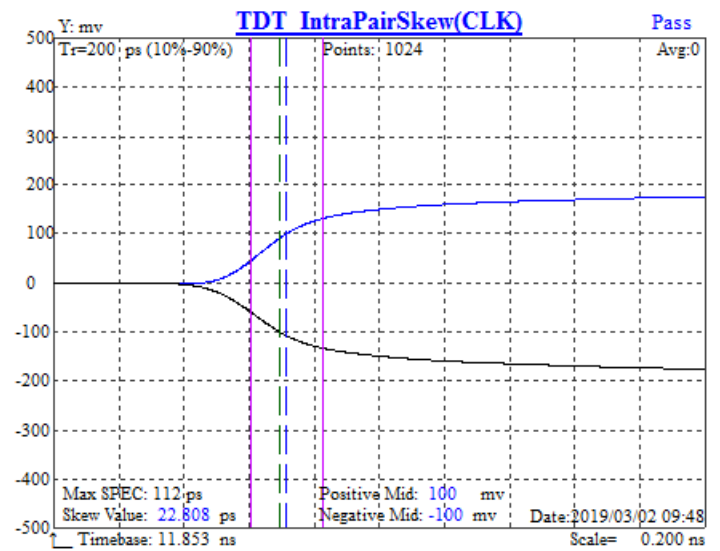
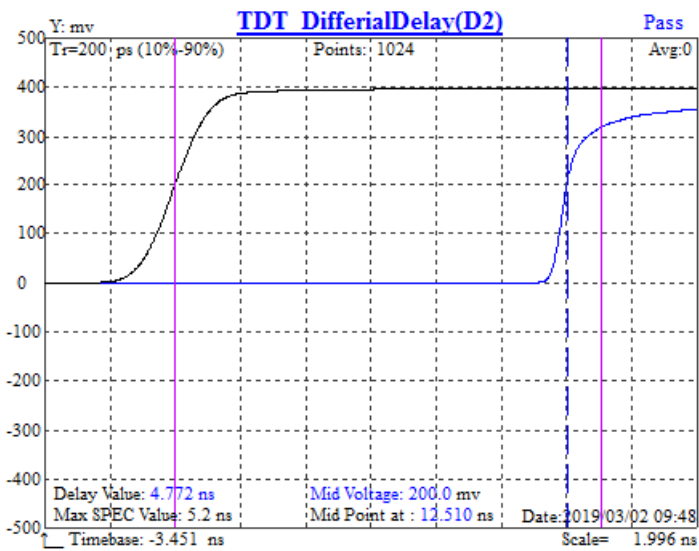
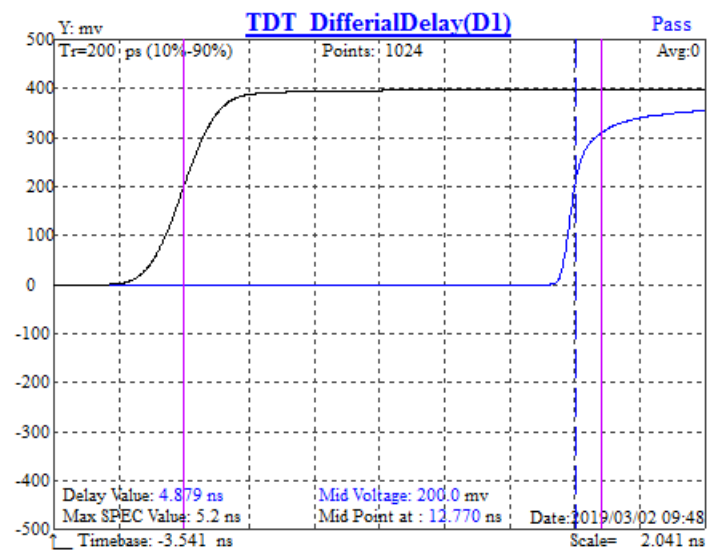
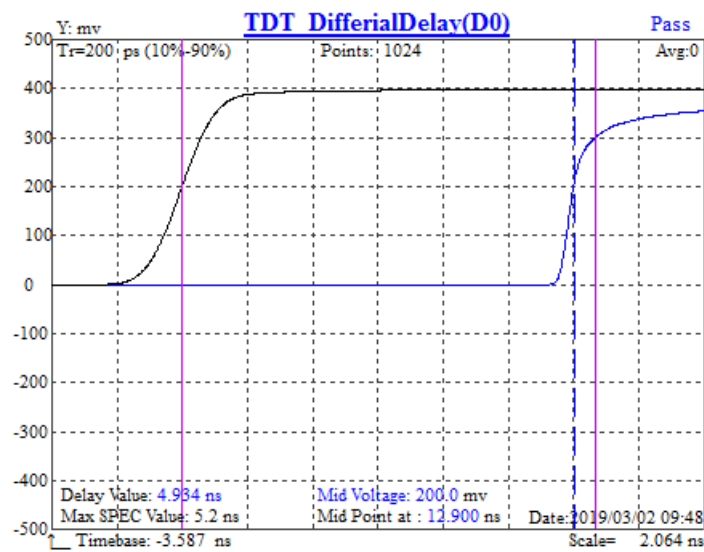
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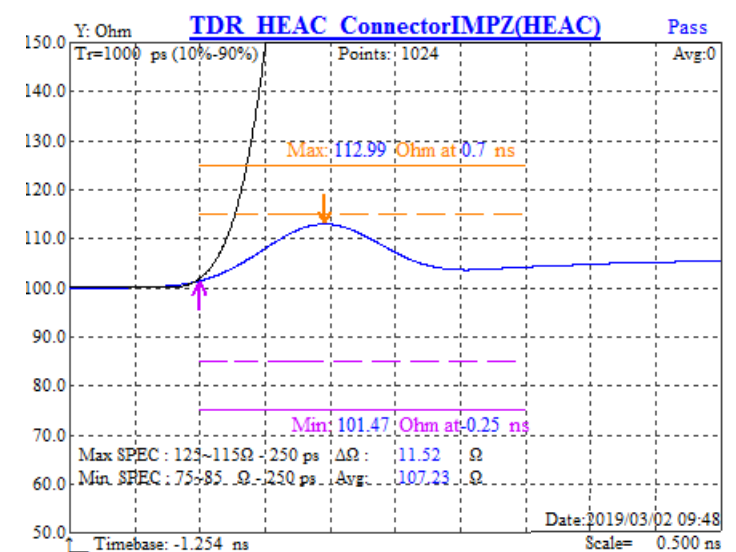
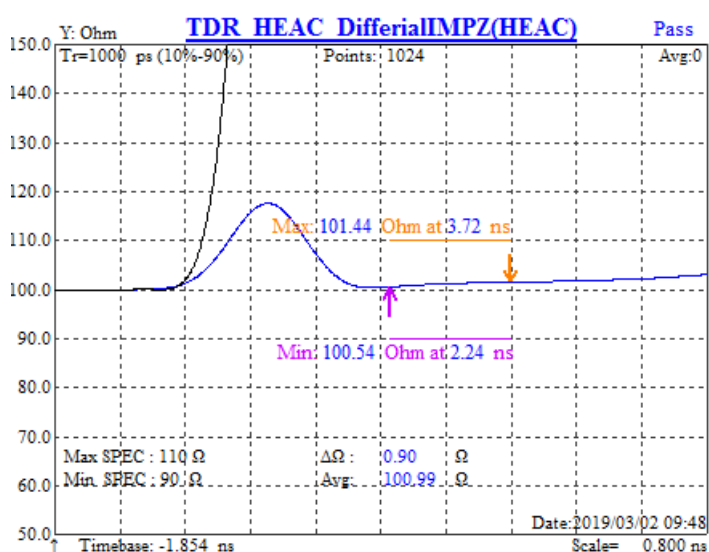
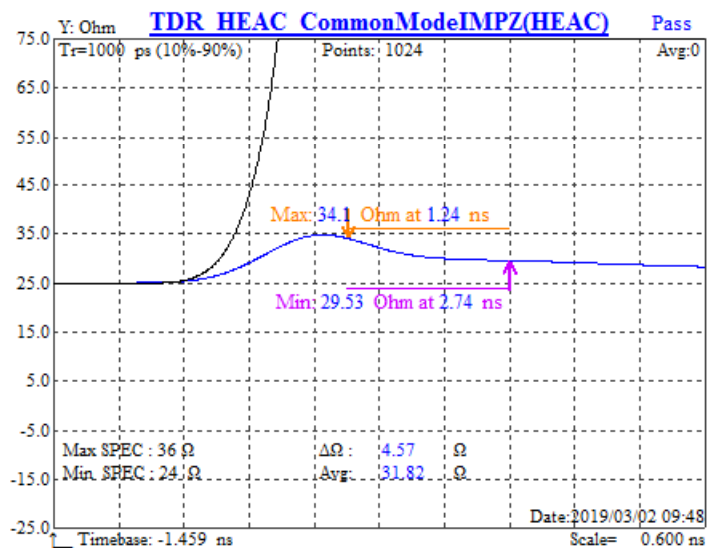
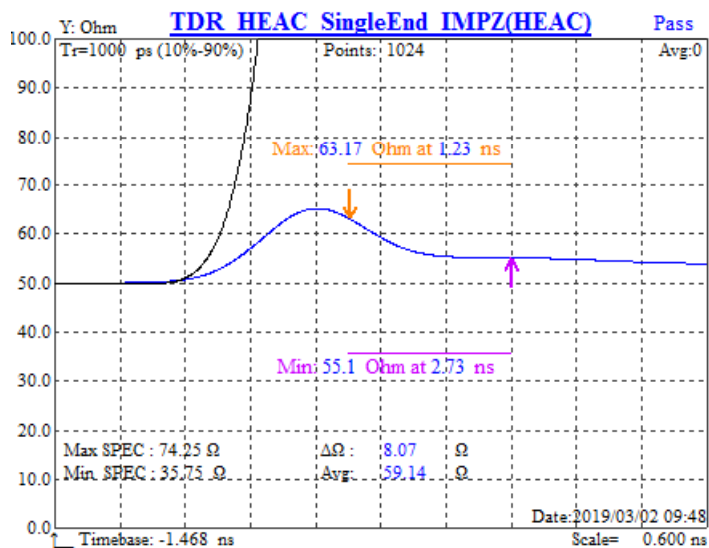
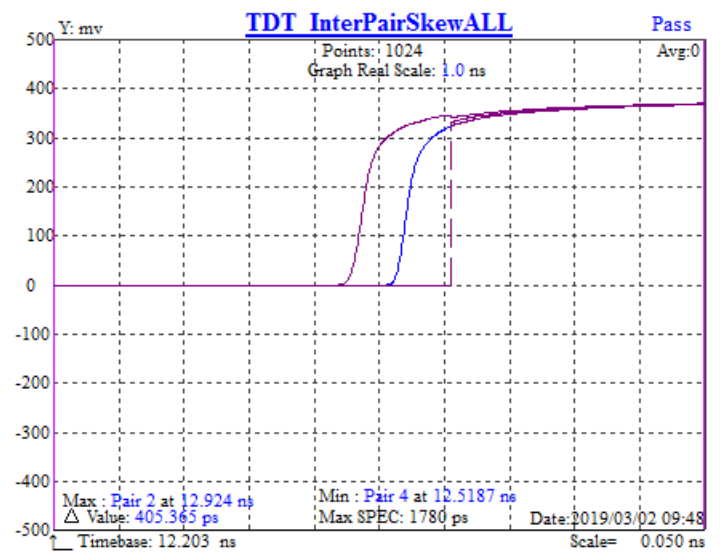
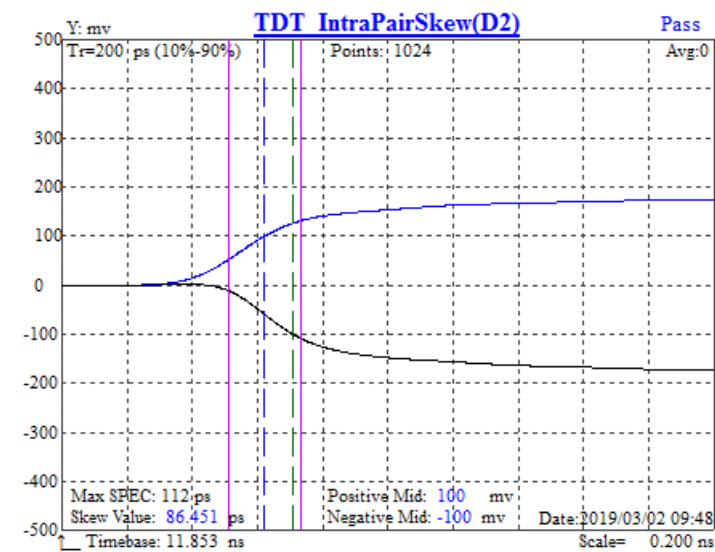
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