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Amphenol
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2024/11/4

REV.	ECR/ECN No.	DESCRIPTION	DRAWN/DATE	CHECKED/DATE	APPROVED/DATE
F	/	Add Packaging Drawing	Shuhong Chen 2020-06-29	Rain 2020-06-29	Leo 2020-06-29
G	/	Update the FFC dimension and package logo	May 2022-05-09	SH.Chen 2020-06-29	Rain.Han 2020-06-29
H	/	Update QTY. LIST	May.Wang 2023-03-14	Eleven.Zhan 2023-03-14	Rain.Han 2023-03-14
G	/	Add the 33PIN	May.Wang 2024-09-11	Eleven.Zhan 2024-09-11	Rain.Han 2024-09-11

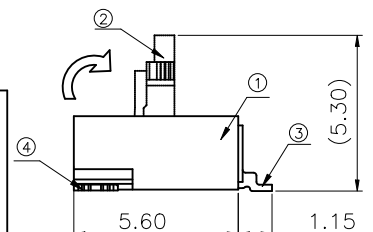
SPECIFICATION

1. CONTACT RESISTANCE : 30mΩ MAX.;
2. DIELECTRIC WITHSTANDING VOLTAGE;
500V AC R.M.S. FOR 1 MINUTE;
3. INSULATION RESISTANCE : 500MΩ MIN;
4. "▼" IS IMPORTANT DIMENSION;
5. "▽" NOTATION FOR CPK AND X-R TEST SIZE
6. ALL MATERIAL MUST BE COMPLY WITH SS-00259 OR RoHS.
7. PART NO.:

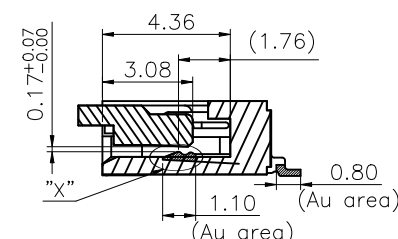
F51L-1*7*1-*10**
F51L-1*7*1-*10**-E*20(upgraded Part number)

1A:LCP Natural
1B:LCP Black

1:WITH MYLAR
2:WITHOUT MYLAR
NO. OF POSITIONS
1:Containing halogen
2:halogen-free
7H:PHOSPHOR BRONZE
0.05um MIN Au(Au Area)
7A:PHOSPHOR BRONZE
MATTER TIN



When Actuator is opened
SCALE 1:1



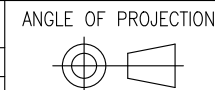
SECTION A-A;SCALE:1:1

terminal head
Lower than the guide surface

DETAIL "X";SCALE 4:1

NO.	COMPONENTS	MATERIALS	FINISH/COLOR SPECIFICATION	QTY
1	HOUSING	Liquid crystal polymer	Natural or Black(UL94V-0);	1
2	ACTUATOR	Polyamide 9T	black(UL94V-0);	1
3	CONTACT	Phosphor Bronze T=0.20mm	UNDER PLATING:1~3um Ni SURFACE SELECT PLATING:SEE PART NO.	N
4	ANCHOR-PLATE	Brass T=0.20mm	2~4um Tin PLATING 1~3um Ni UNDERPLATING	2
5	MYLAR	T=0.10mm THERMOSTABLE	YELLOW	1

UNLESS OTHERWISE SPECIFIED TOLERANCES			
X.	±0.30	X. °	± 5
X.X	±0.25	X.X °	± 4
XX	±0.20	X.XX °	± 3
XXX	±0.15	X.XXX °	± 2
NEAR DIMS		ANGLES DIMS	
WG NO.: A-S0242			
MATERIAL		SEE NOTES	
FINISHED		SEE NOTES	



DOC
TYP Customer Drw

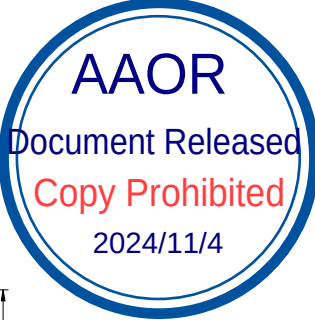
DRAWN	DATE	May.Wang 2024-09-11
DESIGN	DATE	May.Wang 2024-09-11
CHECKED	DATE	Eleven.Zhan 2024-09-11
APPROVED	DATE	Rain.Han 2024-09-11

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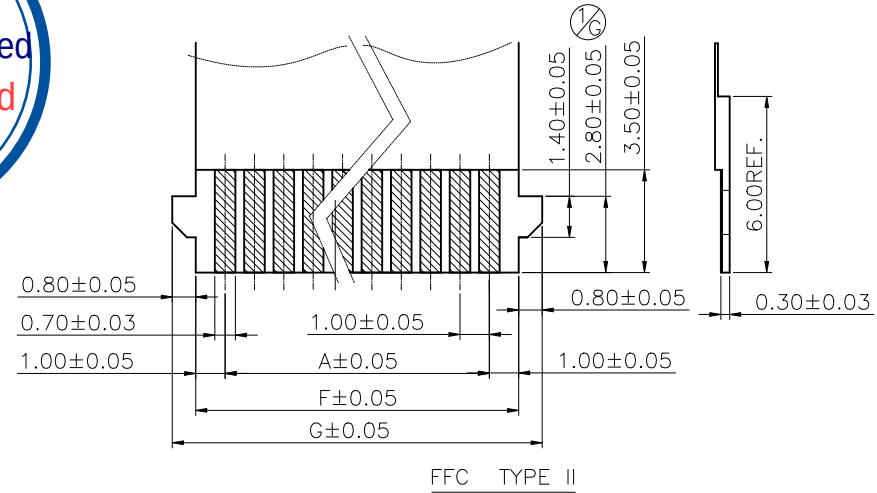
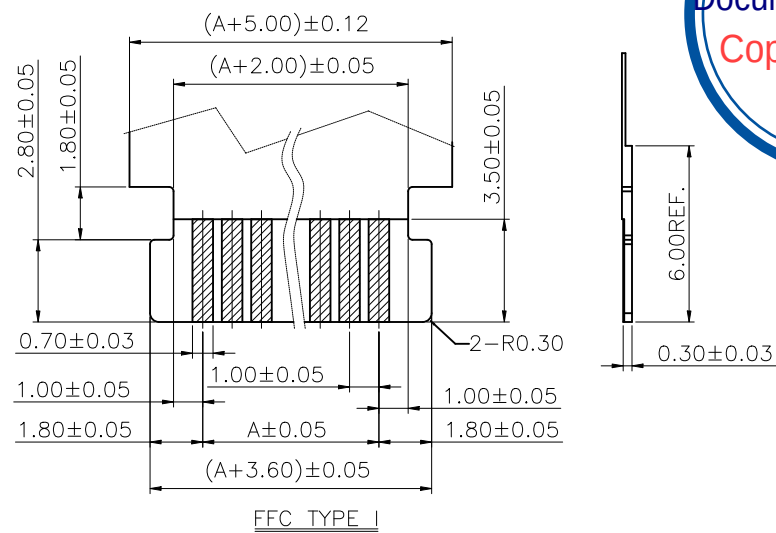
Amphenol Aorora Technology (Huizhou) Co.,Ltd

TITLE:
Assembly Drawing For 1.0mm pitch Front side filp,
with lock,H2.55mm(20~33PIN)

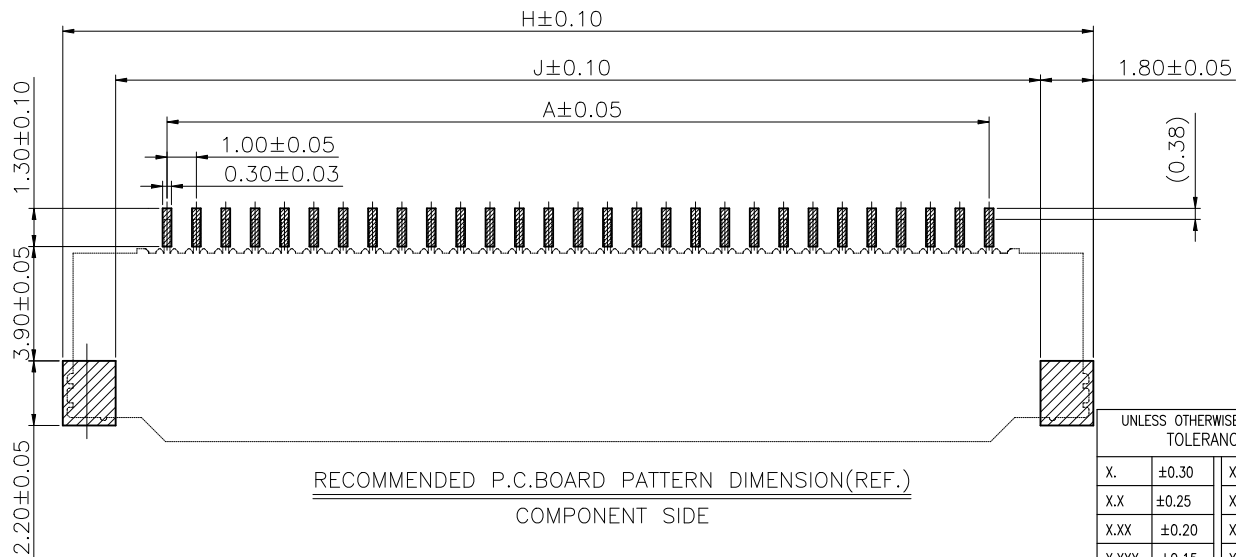
SIZE	A4	PART NUMBER:	F51L-1*7*1-*10** F51L-1*7*1-*10**-E*20	REV.	G
SCALE	4:1	UNIT : mm	SHEET 1	OF 3	



1. FFC PATTERN DIMENSION



2. P.C.B LAYOUT,TOL:±0.05



DIMENSION LIST:

NO.OF POS.	A	B	C	D	F	G	H	J	K
20	19.0	25.8	23.54	21.01	21.0	22.6	26.1	22.5	22.72
21	20.0	26.8	24.54	22.01	22.0	23.6	27.1	23.5	23.72
22	21.0	27.8	25.54	23.01	23.0	24.6	28.1	24.5	24.72
23	22.0	28.8	26.54	24.01	24.0	25.6	29.1	25.5	25.72
24	23.0	29.8	27.54	25.01	25.0	26.6	30.1	26.5	26.72
25	24.0	30.8	28.54	26.01	26.0	27.6	31.1	27.5	27.72
26	25.0	31.8	29.54	27.01	27.0	28.6	32.1	28.5	28.72
27	26.0	32.8	30.54	28.01	28.0	29.6	33.1	29.5	29.72
28	27.0	33.8	31.54	29.01	29.0	30.6	34.1	30.5	30.72
29	28.0	34.8	32.54	30.01	30.0	31.6	35.1	31.5	31.72
30	29.0	35.8	33.54	31.01	31.0	32.6	36.1	32.5	32.72
31	30.0	36.8	34.54	32.01	32.0	33.6	37.1	33.5	33.72
33	32.0	38.8	36.54	34.01	34.0	35.6	39.1	35.5	35.72

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	

DWG NO.: A-S0242

MATERIAL	SEE NOTES
FINISHED	SEE NOTES

ANGLE OF PROJECTION

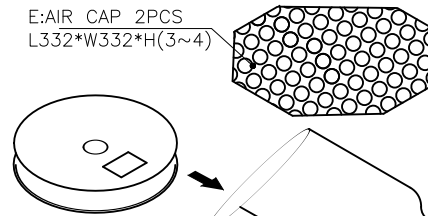
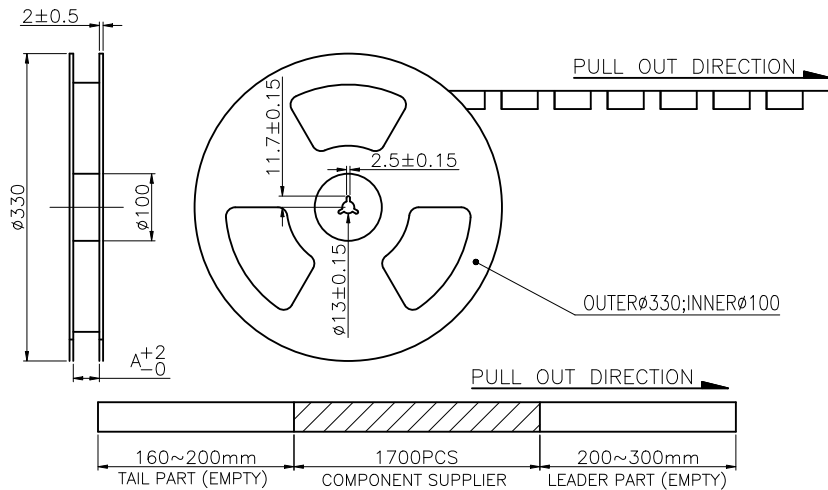
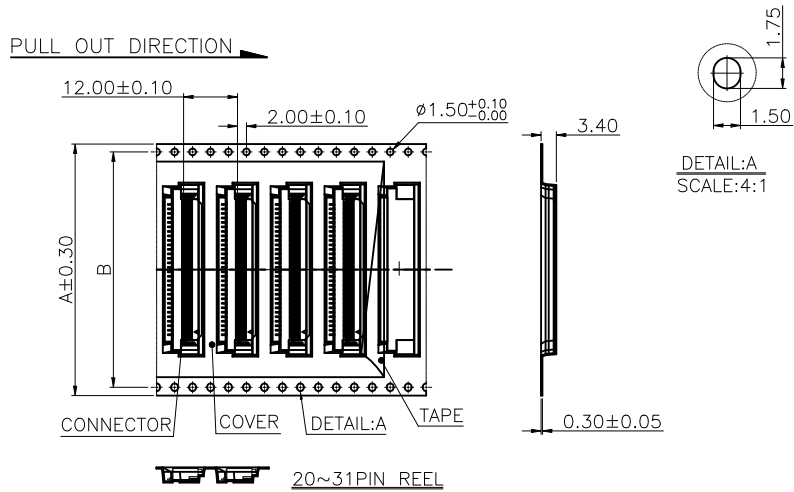
DOC TYPE Customer Drw

DRAWN	DATE	May.Wang	2024-09-11
DESIGN	DATE	May.Wang	2024-09-11
CHECKED	DATE	Eleven.Zhan	2024-09-11
APPROVED	DATE	Rain.Han	2024-09-11

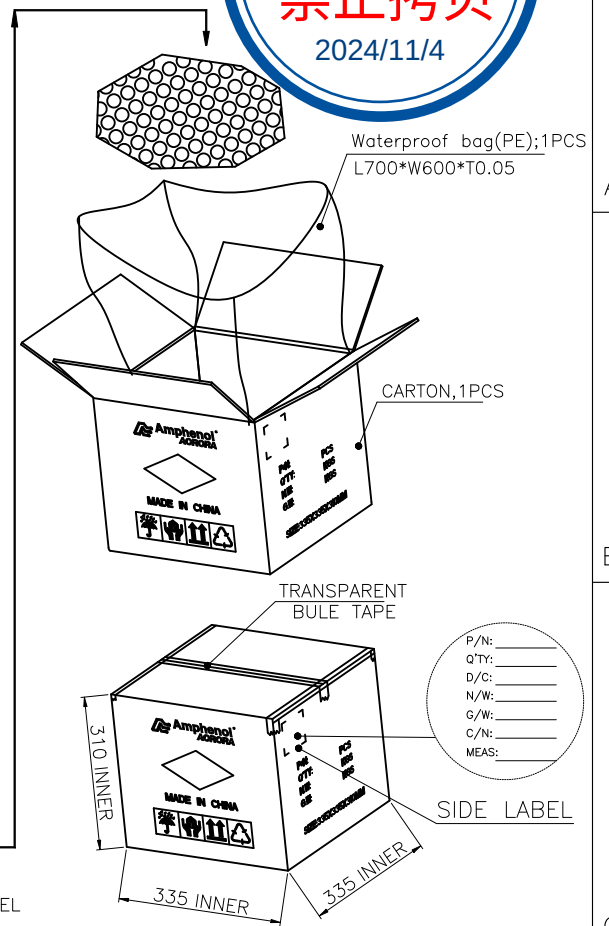
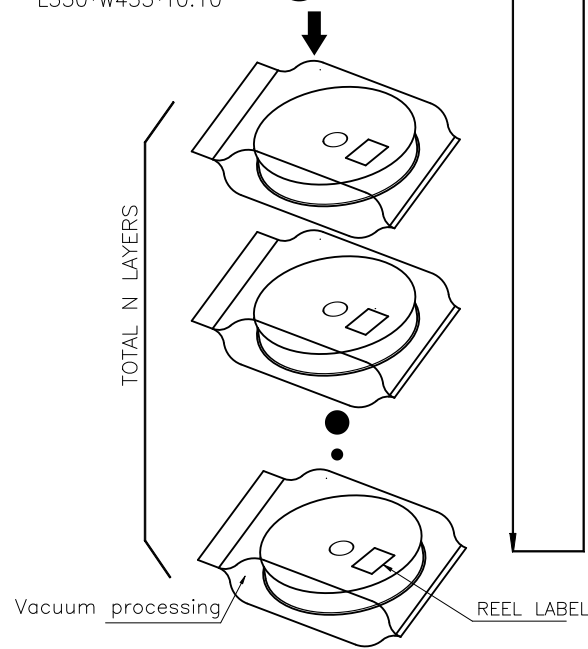
Amphenol Aorora Technology (Huizhou) Co.,Ltd

TITLE: Assembly Drawing For 1.0mm pitch Front side filp, with lock,H2.55mm(20~33PIN)

SIZE	PART NUMBER:	REV.
A4	F51L-1*7*1-*10** F51L-1*7*1-*10**-E*20	G
SCALE	4:1	UNIT : mm
SHEET 2 OF 3		



Vacuum bag
L550*W435*T0.10



NOTES:

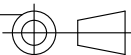
- MATERIAL:
 - CARRY TAPE:PS,T=0.30±0.05mm,CLEAR
 - REEL:HIPS; 1.3 SHIM:PE,CLEAR.
- PRIMARY PACKING:SEE TABLE.
- SECONDARY PACKING:SEE PACKING LIST
- PEELING RESISTANCE: 0.1~0.7N(10~70gf); PEELING ANGLE: 165°~180°; PEELING SPEED: 300mm/minutes.
- PART NO. LEGEND: F51L-1*7*1-*10**

F51L-1*7*1-*10**-E*20

1A:LCP NATURAL 7H:PHOSPHOR BRONZE 0.05um MIN Au(Au Area)
1B:LCP BLACK 7A:PHOSPHOR BRONZE MATTER TIN

6. QTY. LIST: ①

NO. OF POS	A	B	PCS/REEL	N REEL/BOX (TOL:PCS)
20~24 PIN	44.0	40.40	1700	6REEL(10200PCS)
25~33 PIN	56.0	52.40	1700	5REEL(8500PCS)

UNLESS OTHERWISE SPECIFIED TOLERANCES				ANGLE OF PROJECTION		 Amphenol Aorora Technology (Huizhou) Co.,Ltd			
X.	±0.30	X. °	± 5'			TITLE: Assembly Drawing For 1.0mm pitch Front side filp, with lock,H2.55mm(20~33PIN)			
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		DOC TYP		Customer Drw		SIZE PART NUMBER: F51L-1*7*1-~*10** F51L-1*7*1-~*10**-E*20 REV. G	
DWG NO.: A-S0242		DRAWN		DATE		May.Wang 2024-09-11			
MATERIAL		SEE NOTES		DESIGN		May.Wang 2024-09-11			
FINISHED		SEE NOTES		CHECKED		Eleven.Zhan 2024-09-11			
				APPROVED		Rain.Han 2024-09-11			
				DATE				SCALE 1:1 UNIT : mm SHEET 3 OF 3	