

4

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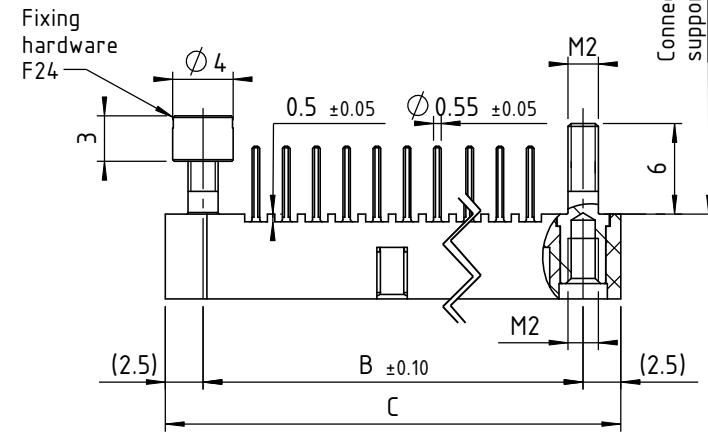
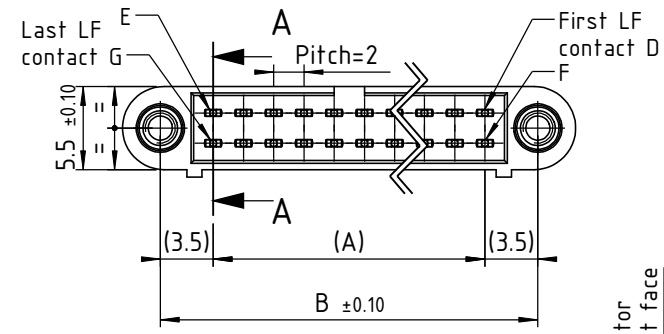
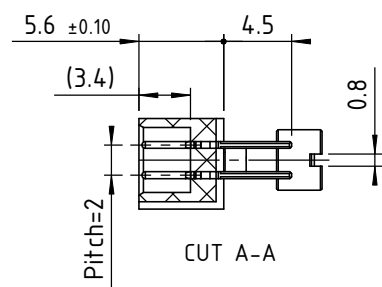


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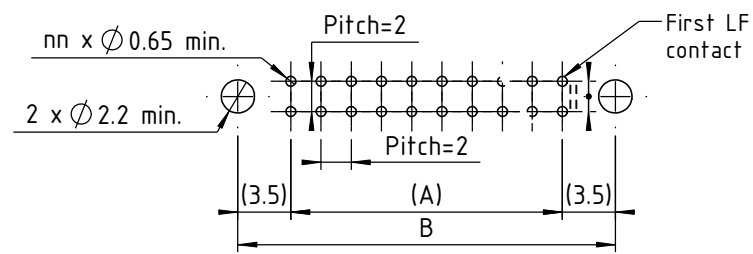
3

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Recommended PCB layout:



TECHNICALS FEATURES

MATERIAL

INSULATOR : Special PPS (Polyphenylene Sulfide Fibreglass filled thermoplastic) UL 94-V0

- Radiation resistance
- No humidity absorption
- Oxygen free

Note : PPS characteristics are recognized for space applications

SIGNAL CONTACTS for PCB:

Male :

- Contact area : Copper alloy / Ni + Au 1µ
- Contact tail : Copper alloy / Ni + Au flash 0.1µ

FIXING HARDWARE :

- Jackscrew : Stainless steel

ELECTRICAL for LF Contacts

- All contacts : 3 A max. @ 25°C
2.2 A max. @ 85°C
- Working voltage (sea level) : Tested at 800 V DC
- Proof voltage : Tested at 1200 V DC
- Contact resistance (initially) : max. 10 mΩ
- Insulation resistance : 1000 MΩ min

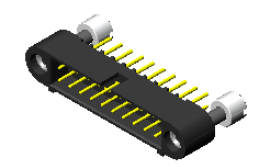
MECHANICAL for LF Contacts

- Mechanical operations : 500 cycles min. up to 2500
- Contact insertion and withdrawal force : 2 N max. / 0.2 N min. per contact

ENVIRONMENTAL

- Temperature range : From -60°C to +260°C
- Vibration severity : 0.75mm, 10 g RMS 6 hours long random with superimposed sinusoid. No intermittencies measured when using an H.S.L.I. (High Speed Logic Interrupt) detector with a trip threshold of 2 ns.
- Shock severity : 100g for 6 ms
- Solvent resistance : HcFc 141 bMGX (ATOCHEM) solvent
- Salt spray test : 96 hrs
- Humidity test : 56 days @ 90% humidity

3D view
scale: 1:1



Marking as referenced in the CMM catalogue pages 12 & 13

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2	12/01/10	M.S.	E.M.	D.Z.
Iss	Date	Drawn	Checked	Approved

Item : Connector CMM220 male straight on PCB, nn LF contacts, F24

CONNECTOR SERIES 220 MALE							
LF contacts number nn	Distance in mm between axes		Length in mm	LF contacts reference mark number			
	A	B		D	E	F	G
04	2	9	14	1	2	3	4
06	4	11	16	1	3	4	6
08	6	13	18	1	4	5	8
10	8	15	20	1	5	6	10
12	10	17	22	1	6	7	12
14	12	19	24	1	7	8	14
16	14	21	26	1	8	9	16
18	16	23	28	1	9	10	18
20	18	25	30	1	10	11	20
22	20	27	32	1	11	12	22
24	22	29	34	1	12	13	24
26	24	31	36	1	13	14	26
28	26	33	38	1	14	15	28
30	28	35	40	1	15	16	30
32	30	37	42	1	16	17	32
34	32	39	44	1	17	18	34
36	34	41	46	1	18	19	36
38	36	43	48	1	19	20	38
40	38	45	50	1	20	21	40
42	40	47	52	1	21	22	42
44	42	49	54	1	22	23	44
46	44	51	56	1	23	24	46
48	46	53	58	1	24	25	48
50	48	55	60	1	25	26	50
52	50	57	62	1	26	27	52
54	52	59	64	1	27	28	54
56	54	61	66	1	28	29	56
58	56	63	68	1	29	30	58
60	58	65	70	1	30	31	60

Tools recommended	
Screwdriver for standard nut	C14743

Folder : X:\Méthodes\Plans clients\Plans clients 2D\10 - CMM220\Connecteurs mâles\221YL\221YLnnF24_cl

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Catalogue Reference : 221YLnnF24

	General tolerance	±0.2	Scale	2:1	Page	1/1
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