



**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**

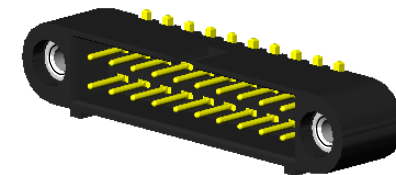
- **All contacts** : 3 A max. @ 25°C  
2.2 A max. @ 85°C
- **Working voltage (sea level)** : Tested at 800 V DC
- **Proof voltage** : Tested at 1200 V DC
- **Contact resistance (initially)** : max. 10 mΩ
- **Insulation resistance** : 1000 MΩ min

**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**

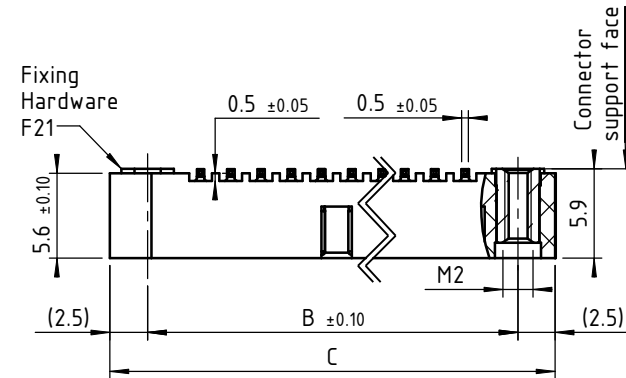
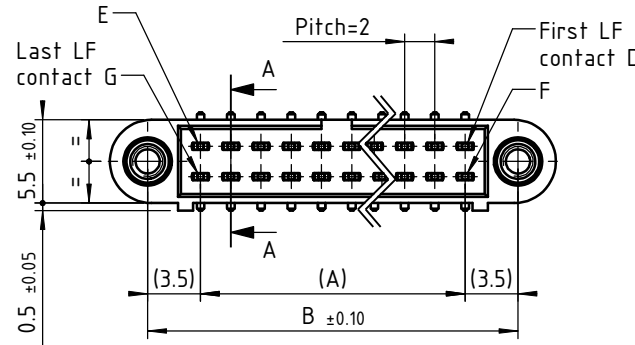
- **Temperature range** : From -60°C to +260°C
- **Vibration severity** : 0.75mm, 10 g RMS 6 hours long random with superimposed sinusoid. No intermittencies measured when using an H.S.L.I. (High Speed Logic Interrupt) detector with a trip threshold of 2 ns. 100g for 6 ms
- **Shock severity** : HcFc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



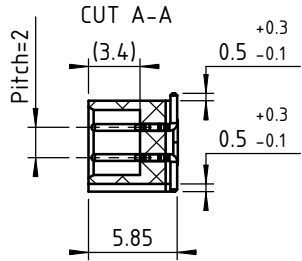
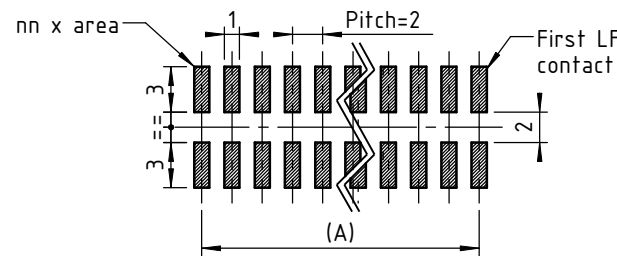
Marking as referenced in the CMM catalogue pages 12 & 13

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	Iss	Date	Drawn	Checked	Approved
<b>Item : Connector CMM220 male straight SMT,nn LF contacts, F21</b>					

Folder : X:\Méthodes\Plans clients\Plans clients 2D\10 - CMM220\Connecteurs mâles\221T\221TnnF21\_cl



**Recommended PCB layout:**



**CONNECTOR SERIES 220 MALE**

LF contacts number nn	Distance in mm between axes		Length in mm	LF contacts reference mark number			
	A	B		C	D	E	F
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

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**Catalogue Reference :** 221TnnF21



General tolerance ±0.2  
Scale 2:1  
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