



TECHNICALS FEATURES

MATERIALS

INSULATOR : Special PPS (Polyphenylene sulphide fibreglass filled thermoplastic) UL 94-V0

- Radiation resistance
- No humidity absorption
- Oxygen free

Note : PPS characteristics are recognized for space applications

FIXING HARDWARE :

- Jackscrew : Stainless steel

TECHNICAL FEATURES for 30 HP CONTACTS

MATERIAL

- **Body** : Copper alloy / Ni + Au 0.5µ

MECHANICAL

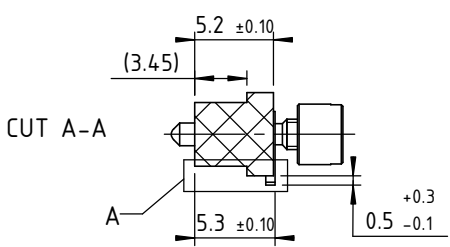
- **Endurance** : 500 cycles min up to 2500.
- **Insertion force** : From 0.60 to 5N per contact
- **Extraction force** : From 0.50 to 2N per contact
- **Secure overlapping** : 1.30 mm

ELECTRICAL

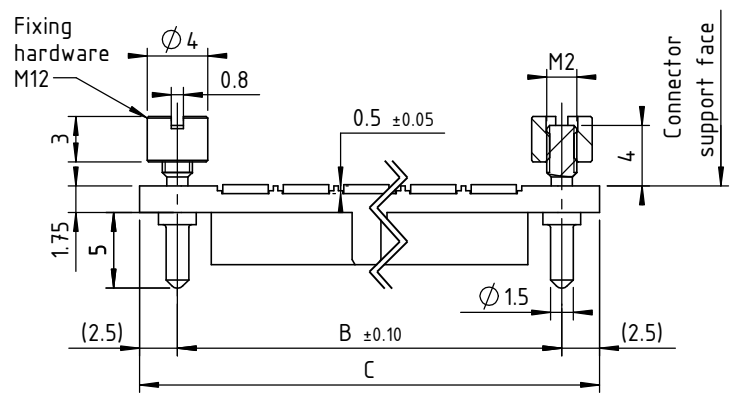
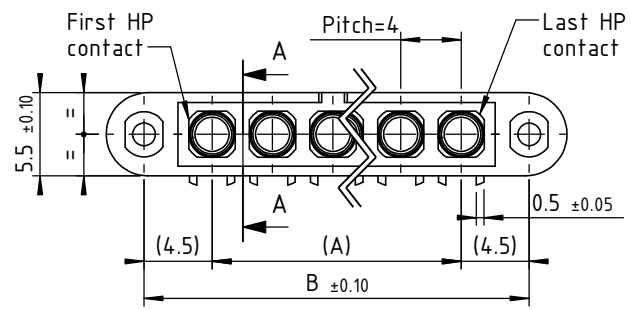
- **Intensity** : 20 A
- **Contact resistance** : max. 6 mΩ
- **Maximum voltage (sea level)** : 1000V (RMS)
- **Operating voltage (sea level)** : 180 V AC/500 mA

ENVIRONMENTAL

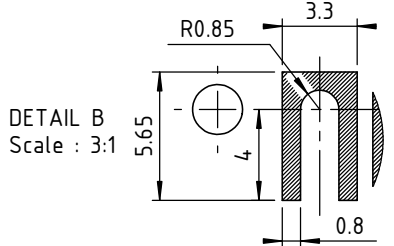
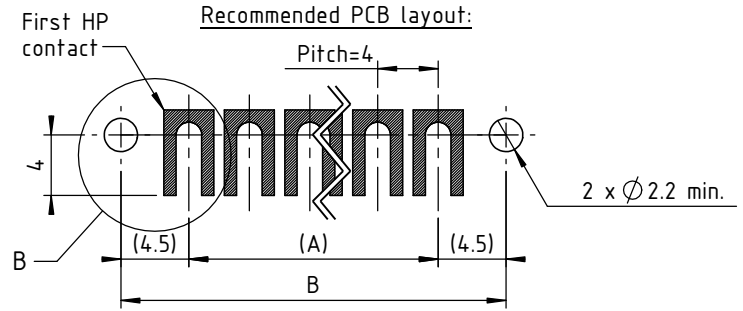
- **Temperature range** : From -60°C to +260°C
- **Vibration severity** : 0.75mm, 10 g RMS 6 hours long random with superimposed sinusoid. No intermittencies measured when using an H.S.L.I. (High Speed Logic Interrupt) detector with a trip threshold of 2 ns.
- **Shock severity** : 100g for 6 ms
- **Solvent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



DETAIL A
Scale : 8:1

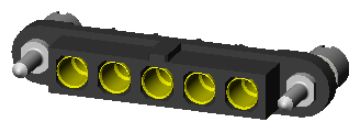


Recommended PCB layout:



DETAIL B
Scale : 3:1

3D view
scale : 1.5:1



Marking as referenced in the CMM catalogue pages 12 & 13

CMM Series 220 FEMALE			
HP contacts number zz	Distance between axes		Length in mm
	A	B	
02	4	13	18
03	8	17	22
04	12	21	26
05	16	25	30
06	20	29	34
07	24	33	38
08	28	37	42
09	32	41	46
10	36	45	50
11	40	49	54
12	44	53	58
13	48	57	62
14	52	61	66
15	56	65	70

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	Iss	Date	Drawn	Checked	Approved
Item : Connector CMM220 female 90° SMT, zz HP contacts 30-4600, M12					
Folder : \\192.168.1.251\Methodes\Plans clients\Plans clients 2D\10 - CMM220\Connecteurs femelles\222D\222D00M12-00zz-4600_cl					

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Catalogue Reference : 222D00M12-00zz-4600

	General tolerance	±0.2	Scale	Page /
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4
3
2
1

4
3
2
1