

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

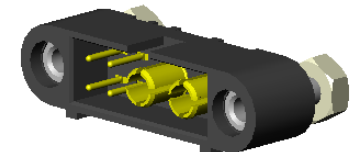
- All contacts : 3 A max. @ 25°C
2.2 A max. @ 85°C
- Working voltage (sea level) : Tested at 800 V DC
- Proof voltage : Tested at 1200 V DC
- Contact resistance (initially) : max. 10 mΩ
- Insulation resistance : 1000 MΩ min

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



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

Marking as referenced in the CMM catalogue pages 12 & 13

	2	06/04/09	H.L.	E.M.	D.Z.
	Iss	Date	Drawn	Checked	Approved
<p>www.nicomatic.com Mail : nicomatic@nicomatic.fr Tel : +33 (0)4.50.36.13.85</p>					
<p>Item : Connector CMM220 male straight on PCB, 4 LF contacts, 2 HP contacts 30-3300-CMM, F22H</p>					
<p>Folder : X:\Méthodes\Plans clients\Plans clients 2D\10 - CMM220\Connecteurs mâles\221Y\221Y04F22H-0200-3300CMM_cl</p>					

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