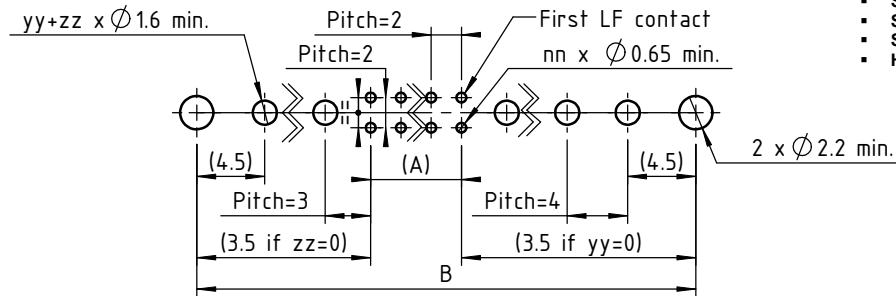


Recommended PCB layout:



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

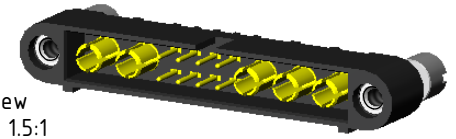
- All contacts : 3 A max. @ 25°C
2.2 A max. @ 85°C
- Working voltage (sea level) : Tested at 800 V DC
- Proof voltage : Tested at 1200 V DC
- Contact resistance (initially) : max. 10 mΩ
- Insulation resistance : 1000 MΩ min

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. 100g for 6 ms
- Shock severity : HcFc 141 bMGX (ATOCHEM) solvent
- Solvent resistance : 96 hrs
- Salt spray test : 56 days @ 90% humidity
- Humidity test : 56 days @ 90% humidity



Part numbering :

nn : number of LF contacts
yy : number of HP contacts side LF pin 1
zz : number of HP contacts opposite side LF pin 1

Distance between the axes and length in mm :

A = nn - 2
B = {(yy+zz) x 4} + A + 7
B max. = 65
C = B + 5

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

Tools recommended		
Fixing	Screwdriver for standard nut	C14743

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2	06/01/11	N.P.	A.V.	E.M.
Iss	Date	Drawn	Checked	Approved
Item : Connector CMM220 male straight on PCB, nn LF contacts, yy+zz HP contacts 30-3300-CMM, F22				

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Catalogue Reference : 221YnnF22-yyzz-3300CMM

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