

FEATURES & BENEFITS

Interchangeable with the board layout on COTS System
 High Reliability Hyperboloid Contact System
 Standard 2mm Footprint of cPCI PICMG 2.0
 LCP Insulator meets NASA Outgassing Requirements
 Contact identification in accordance with IEC 61076-4-101:2001
 Press-fit termination available, see ordering chart

PRELIMINARY SPECIFICATIONS (See online catalog for latest info)

GENERAL:

Design Criteria: IEC 61076-4-101:2001
 Contact Spacing: 2.00mm square
 Maximum Allowable Gap
 Between Mating Connectors: 0.050 [1.27]

MATERIALS

Pin Contacts: Beryllium Copper Pin Contacts:
 BeCu per ASTM B196/B196M-07, C17200

Socket Contacts: Beryllium Copper Hyperboloid Socket Wires and Brass Body:
 BeCu per ASTM B197/B197M-07, C17200

Insulator: 30% Glass filled LCP (meets NASA outgassing specification):
 LCP0120G30A43430 IAW ASTM-D5138

Mating Surface, Finishes: 30 µin or 50 µin min. Gold / 50 µin min. Nickel:
 Gold per MIL-DTL-45204 Type II, Class 0.75 or 1.27 min, Code C over Nickel,
 0.000050 min., per SAE AMS-QQ-N-290 over Copper per SAE AMS 2418

Termination Solder Dip: Gold per MIL-DTL-45204 Type II, Class 0.25 or 0.75 min, Code C over Nickel,
 0.000050 min., per SAE AMS-QQ-N-290 over Copper per SAE AMS 2418 or
 Solder Dip over Nickel, 0.000050 min., per SAE AMS-QQ-N-290 over Copper per SAE
 AMS 2418

Termination Press-In: Gold per MIL-DTL-45204 , Class 1.27 min. , Grade C over Nickel, 0.000050 min., per
 SAE AMS-QQ-N-290 over Copper per SAE AMS 2418 or Tin/Lead per SAE-AMS-
 P-81728

PERFORMANCE:

Contact Current Rating: 2 Amp Max per Contact (higher ratings may be supported-contact factory)

Insulation Resistance: >5000 megaohm

Flammability Rating: 94 V-O

Temperature: -55°C to +125°C (-67°F to +257°F)

Mating Force: [16.38] LBF average (per mated connector pair for both 95 and 110 Signal Contacts)

De-mating Force: [13.2] LBF average (per mated connector pair for both 95 and 110 Signal Contacts)

Contact Life (Mate/Demate): [>5000] Cycles (per mated connector pair)

Contact Resistance: 4.85 milliohms average

Low Level Contact Resistance: 7.20 milliohms average

Dielectric Withstanding Voltage: 1000V RMS

Humidity: IAW EIA-364-31, Method IV, except 7A & 7B (not required)

Vibration: IAW EIA-364-28 & MIL-DTL-55302 (par. 4.5.10)

Shock: IAW EIA-364-27 & MIL-DTL-55302 (par. 4.5.14)

Salt Spray: IAW EIA-364-26 & MIL-DTL-55302 (par. 4.5.11)

Temperature Cycling: IAW EIA-364-32 & MIL-DTL-55302 (par. 4.5.13)

Weight: P1/P4: 0.23 oz.; P2/P5: 0.20 oz.; P3: 0.18 oz.;
 J1/J4: 0.68 oz.; J2/J5: 0.64 oz.; J3: 0.55 oz.