TECHNICAL INFORMATION

MATERIAL

- Contact Base Metal: Copper alloy
- Contact Area Finish: Gold over nickel
- Solder Area Finish: Tin over nickel or tin–lead over Nickel
- Metal Board Locks: Copper alloy
- Board Locks Finish: Tin over nickel or tin–lead over nickel
- Housing: High–temperature thermoplastic

ELECTRICAL PERFORMANCE

- Contact Resistance:
  - Initial: 30mΩ max.
  - Finish: Delta 20mΩ max.
- Current Rating: 1.1A for 8 specified power contacts and 8 nearest ground contacts
- Voltage Rating: 50V AC (rms)

MECHANICAL PERFORMANCE

- Durability: 50 mating cycles
- Insertion Force: 1.15N (0.117Kgf) max. per contact pair
- Withdrawal Force: 0.15N (0.015Kgf) min. per contact pair
- Contact Retention Force: 0.5Kgf min. per pin

ENVIRONMENTAL

- Salt Spray: Contact Resistance 20Ω max. final)
- Thermal Shock: Contact Resistance (20Ω max. final)
- Solderability: 90% of immersed area must show no voids and pin holes

APPROVALS AND CERTIFICATIONS

- UL
- CSA

SPECIFICATIONS

- Amphenol Product Specification:
  - GS–12–1193 PCI Express® 3.0 Straddle Mount Connectors Product Specification
  - GS–12–233 PCI Express® Connector Product Specification
  - GS–12–319 PCI Express® Press–Fit Connector Product Specification
  - CS–12–288 PCI Express® Rentention Mechanism Product Specification
  - GS–12–390 PCI Express® Surface–Mount Connector Product Specification
- Industry Specification:
  - PCI Express Card Electromechanical Specification
  - PCI Express® Module Electromechanical Specification
  - For more information on the applicable PCI–SIG specification, visit www.pcisig.com

PACKAGING

- Tray

TOOLING INFORMATION

- Tooled Up

TARGET MARKETS/APPLICATIONS

Desktop PC
Server
Workstation

PART NUMBERS

Description	Data Rate	Orientation	Termination	Position	Part Numbers
PCIe Gen 3	8GT/s	Vertical	SMT	36, 64, 98,164pos	10061913*
PCIe Gen 3	8GT/s	Vertical	SMT	230pos	10124870*
PCIe Gen 3	8GT/s	Vertical	SMT	280pos	10138069*
PCIe Gen 3	8GT/s	Vertical	TH	36, 64, 98,164pos	10108777*
PCIe Gen 3	8GT/s	Vertical	TH	200pos	10054652*
PCIe Gen 3	8GT/s	Vertical	TH	230pos	10132403*
PCIe Gen 3	8GT/s	Vertical	TH	280pos	10027747*
PCIe Gen 3	8GT/s	Vertical	Straddle Mount	36, 64, 98,164pos	10125756*
PCIe Gen 3	8GT/s	Vertical	PF	36, 64, 98,164pos	10082378*
PCIe Gen 3	8GT/s	Right Angle	SMT	98, 164pos	G630HXXX8XXEXHR
PCIe Gen 3	8GT/s	Right Angle	TH	98pos	G630H98X4210HR

* denotes base part number. Please contact Amphenol ICC for complete part numbers

SSIOPCIE30320EA4

Mouser Electronics

Authorized Distributor

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FCI / Amphenol:

10018783-10003TLF 10018783-10112TLF 10018783-10111TLF 10018783-10102TLF 10018783-10113TLF 10018783-10110TLF 10018783-10103TLF 10018783-10101TLF 10018783-10100TLF 10039755-10313T 10039755-10103TLF 10018783-00101TLF 10018783-00200TLF 10018783-02201TLF 10018783-10000MLF 10018783-10000TLF 10018783-10001MLF 10018783-10001TLF 10018783-10002MLF 10018783-10002TLF 10018783-10010TLF 10018783-10011TLF 10018783-10012TLF 10018783-10013TLF 10018783-10100MLF 10018783-10101MLF 10018783-10120TLF 10018783-10122TLF 10018783-10200MLF 10018783-10200TLF 10018783-10201MLF 10018783-10201TLF 10018783-10202TLF 10018783-10210TLF 10018783-10211TLF 10018783-10212TLF 10018783-10213TLF 10018783-11000TLF 10018783-11001TLF 10018783-11002TLF 10018783-11003TLF 10018783-11010TLF 10018783-11011TLF 10018783-11012TLF 10018783-11013TLF 10018783-11100TLF 10018783-11101TLF 10018783-11102TLF 10018783-11103TLF 10018783-11110TLF 10018783-11111TLF 10018783-11112TLF 10018783-11113TLF 10018783-11200MLF 10018783-11200TLF 10018783-11201TLF 10018783-11202TLF 10018783-11203TLF 10018783-11210TLF 10018783-11211TLF 10018783-11212TLF 10018783-11213MLF 10018783-11213TLF 10018783-12000TLF 10018783-12003TLF 10018783-12012TLF 10018783-12100TLF 10018783-12120TLF 10018783-12201TLF 10025026-10000TLF 10025026-10001TLF 10025026-10002TLF 10025026-10100TLF 10025026-10101TLF 10025026-10102TLF 10025026-10103TLF 10025026-10200TLF 10025026-10201TLF 10025026-10203TLF 10027747-11010TLF 10027747-11110TLF 10027747-11210TLF 10036767-10200TLF 10037901-11010TLF 10037901-11100TLF 10037901-11110TLF 10037901-11210TLF 10039755-10000TLF 10039755-10001TLF 10039755-10002TLF 10039755-10003TLF 10039755-10010TLF 10039755-10011TLF 10039755-10013TLF 10039755-10100TLF 10039755-10101TLF 10039755-10102TLF 10039755-10110TLF 10039755-10111TLF 10039755-10112TLF