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10106813-061112LF

Amphenol FCI

Board to Board & Mezzanine Connectors 60P MEZZANINE 2MM
HERMAPHRODITIC

Any questions, please feel free to contact us.
info@kaimte.com

MEZZOSTAK[®] 0.5MM MEZZANINE CONNECTORS

Hermaphroditic, “mates-to-itself” design improves business

OVERVIEW

Robust 0.5mm fine pitch mezzanine connector suitable for a wide range of high reliability applications and demanding environments.

Innovative hermaphroditic design provides a precise mating interface with extra housing guidance.

Reduced product mix simplifies customer connector qualification, documentation and maintenance.

Two versions offer a choice between supplemental PCB hold-downs and pegs for short overall length.



FEATURES & BENEFITS

- Hermaphroditic design “mates to itself”
 - Consolidates connector selection and documentation
 - Reduces component engineering costs
- Easy, reliable mating
 - Guidance “scoops” permit easy mating when mis-aligned
 - Polarization prevents mis-mating
 - Dual-point, long wipe contacts
- High un-mating force insures connection security
- High Speeds, including PCIe[®]G2, supported by signal integrity reports and S-parameter models
- 0.5mm high density contact pitch in two rows
 - 7 Stack heights: 4mm to 7mm (0.5mm increments)
 - 6 Sizes: 20 to 90 positions (10 position increments)

TARGET MARKETS/APPLICATIONS

- Portable and mobile electronic equipment
- Medical and instrumentation
- Point-Of-Sale/ retail equipment
- Hand-held terminals
- Automatic identification and data capture
- Sensors
- Military
- Communications and networking
- Data and mass-storage
- Motor vehicle
- Metering and energy



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TECHNICAL INFORMATION

MATERIALS

- Housing: LCP UL94V-0,
Color: Black
- Contacts: Copper alloy
- Plating: Performance-based with gold
- All materials lead-free RoHS compatible per GS-22-008

ELECTRICAL PERFORMANCE

- Current rating per contact: 0.50A (de-rated)
- DWV: 500V
- Voltage Rating: 50V
- Contact resistance: 30mΩ max.
- Signal Integrity
(Differential pairs; 7mm stack height; Connectors with SMT pads and anti-pads/voids underneath)
 - 5+ Gbs capable
 - Impedance: 100Ω +/- 10 @ 50 ps edge
 - Insertion loss: < 1dB to 5+ GHz
 - NEXT and FEXT: < /= 1.0 @ 50 ps edge (10-90%)

ENVIRONMENTAL

- Operating temperature: -40°C - +125°C
- Processing temperature: 260°C peak for 30 seconds

MECHANICAL PERFORMANCE

- Durability: 50 mating cycles in environment
- Mating force: 42g max. per contact pair
- Un-mating force: 25g min. per contact pair
- Wipe length: 1.0mm min.
- SMT lead co-planarity: 0.08mm max.

SPECIFICATIONS

- Product specification: GS-12-577
Packaging specification: GS-14-1320
- Drawing numbers:
10106813 (Standard); 10106814 (Short length)
- UL and CSA

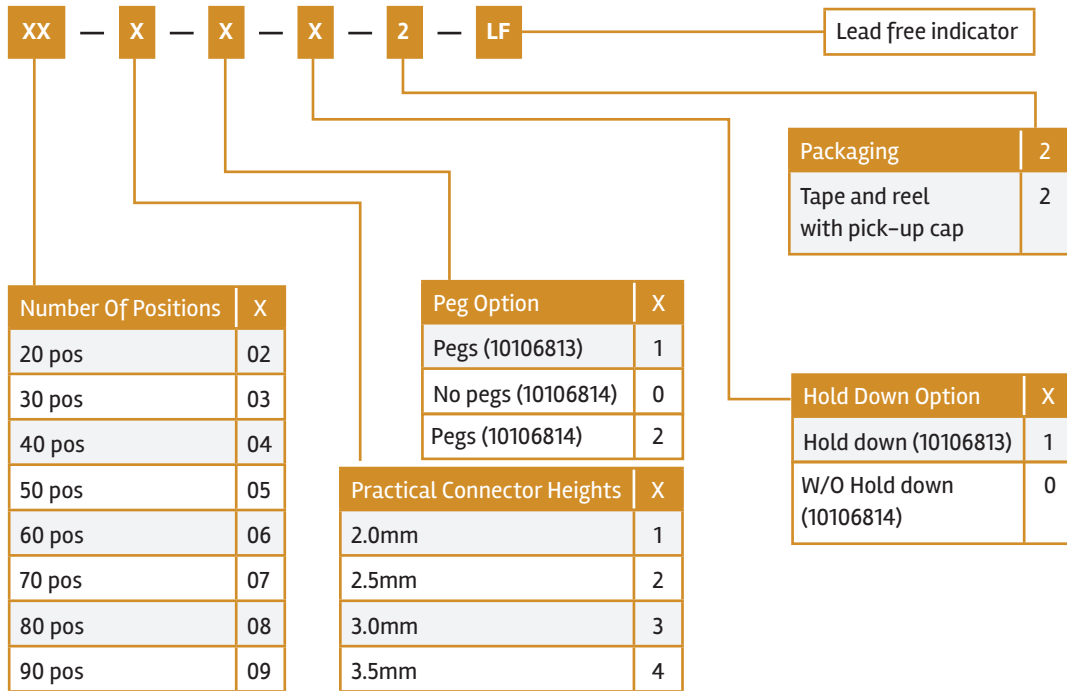
PACKAGING

- Tape and reel, pickup cap pre-installed

Disclaimer

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BASE PART NUMBER



| mm/inch | 10106813 Standard Length | | | 10106814 Short Length | |
|---------|-----------------------------|--------------|--------------|--------------------------|--------------|
| | Number Of Positions | Dim. J | Dim. A | Dim. B | Dim. A |
| 20 | 9.74 / .383 | 9.20 / .362 | 4.50 / .177 | 7.50 / .295 | 4.50 / .177 |
| 30 | 12.24 / .482 | 11.70 / .461 | 7.00 / .276 | 10.00 / .394 | 7.00 / .276 |
| 40 | 14.74 / .580 | 14.20 / .559 | 9.50 / .374 | 12.50 / .492 | 9.50 / .374 |
| 50 | 17.24 / .679 | 16.70 / .657 | 12.00 / .472 | 15.00 / .591 | 12.00 / .472 |
| 60 | 19.74 / .777 | 19.20 / .756 | 14.50 / .571 | 17.50 / .689 | 14.50 / .571 |
| 70 | 22.24 / .876 | 21.70 / .854 | 17.00 / .669 | 20.00 / .787 | 17.00 / .669 |
| 80 | N.A | N.A | N.A | 22.50 / .885 | 19.50 / .767 |
| 90 | N.A | N.A | N.A | 25.00 / .984 | 22.00 / .866 |

 **MEZZOSTAK™ 0.5MM**
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PART NUMBERS

| Number Of Positions | Product Height | With Hold Down | With Pegs | Part References |
|---------------------|----------------|----------------|-----------|-------------------|
| 20 | 2.0mm | Y | Y | 10106813-021112LF |
| 20 | 3.0mm | Y | Y | 10106813-023112LF |
| 20 | 3.5mm | Y | Y | 10106813-024112LF |
| 30 | 2.0mm | Y | Y | 10106813-031112LF |
| 30 | 3.0mm | Y | Y | 10106813-033112LF |
| 30 | 3.5mm | Y | Y | 10106813-034112LF |
| 40 | 2.0mm | Y | Y | 10106813-041112LF |
| 40 | 3.0mm | Y | Y | 10106813-043112LF |
| 40 | 3.5mm | Y | Y | 10106813-044112LF |
| 50 | 2.0mm | Y | Y | 10106813-051112LF |
| 50 | 3.0mm | Y | Y | 10106813-053112LF |
| 50 | 3.5mm | Y | Y | 10106813-054112LF |
| 60 | 2.0mm | Y | Y | 10106813-061112LF |
| 60 | 3.0mm | Y | Y | 10106813-063112LF |
| 60 | 3.5mm | Y | Y | 10106813-064112LF |
| 70 | 2.0mm | Y | Y | 10106813-071112LF |
| 70 | 3.0mm | Y | Y | 10106813-073112LF |
| 70 | 3.5mm | Y | Y | 10106813-074112LF |
| 70 | 2.0mm | Y | Y | 10106813-171112LF |
| 70 | 3.0mm | Y | Y | 10106813-173112LF |
| 70 | 3.5mm | Y | Y | 10106813-174112LF |

For more information,
please contact: Communications@fci.com
or visit us at www.fci.com

Disclaimer
Please note that the above information is subject to change without notice.

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PART NUMBERS

| Number Of Positions | Product Height | With Hold Down | With Pegs | Part References |
|---------------------|----------------|----------------|-----------|-------------------|
| 20 | 2.0mm | N | N | 10106814-021002LF |
| 20 | 3.0mm | N | N | 10106814-023002LF |
| 20 | 3.5mm | N | N | 10106814-024002LF |
| 30 | 2.0mm | N | N | 10106814-031002LF |
| 30 | 3.0mm | N | N | 10106814-033002LF |
| 30 | 3.5mm | N | N | 10106814-034002LF |
| 40 | 2.0mm | N | N | 10106814-041002LF |
| 40 | 3.0mm | N | N | 10106814-043002LF |
| 40 | 3.5mm | N | N | 10106814-044002LF |
| 50 | 2.0mm | N | N | 10106814-051002LF |
| 50 | 3.0mm | N | N | 10106814-053002LF |
| 50 | 3.5mm | N | N | 10106814-054002LF |
| 60 | 2.0mm | N | N | 10106814-061002LF |
| 60 | 3.0mm | N | N | 10106814-063002LF |
| 60 | 3.5mm | N | N | 10106814-064002LF |
| 70 | 2.0mm | N | N | 10106814-071002LF |
| 70 | 3.0mm | N | N | 10106814-073002LF |
| 70 | 3.5mm | N | N | 10106814-074002LF |
| 80 | 3.0mm | N | N | 10106814-083002LF |
| 80 | 3.0mm | N | Y | 10106814-083202LF |
| 90 | 3.0mm | N | N | 10106814-093002LF |
| 90 | 3.0mm | N | Y | 10106814-093202LF |

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