



FPC

TE Internal #: 4-1734592-2

FPC Connectors, Flex-to-Board, 42 Position, .02 in [.5 mm]

Centerline, Zero Insertion Force (ZIF), Right Angle, Surface Mount

[View on TE.com >](#)

Connectors > PCB Connectors > Wire-to-Board Connectors > FFC, FPC & Ribbon Connectors > FPC Connectors > 0.5mm FPC Connectors

Connector System: **Flex-to-Board**Number of Positions: **42**Centerline (Pitch): **.5 mm [.02 in]**Insertion Force Type: **Zero Insertion Force (ZIF)**PCB Mount Orientation: **Right Angle**[All 0.5mm FPC Connectors \(167\)](#)

Features

Product Type Features

| | |
|-----------------------------------|---|
| PCB Connector Assembly Type | PCB Mount Receptacle |
| Connector Product Type | Connector Assembly |
| Connector System | Flex-to-Board |
| Insertion Force Type | Zero Insertion Force (ZIF) |
| FPC Actuator Type | Stuffer (Plunger Style) |
| Sealable | No |
| Connector & Contact Terminates To | Flexible Printed Circuit (FPC), Printed Circuit Board |

Configuration Features

| | |
|-----------------------------------|-------------|
| Compatible With Wire & Cable Type | FFC, FPC |
| Number of Rows | 1 |
| Number of Positions | 42 |
| PCB Mount Orientation | Right Angle |

Electrical Characteristics

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|-------------------|---------|
| Operating Voltage | 250 VAC |
|-------------------|---------|

Contact Features

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|---|----------------------------|
| Contact Layout | Inline |
| PCB Contact Termination Area Plating Material Thickness | .025 μ m[100 μ in] |



| | |
|--|------------------|
| Contact Type | Socket |
| Contact Mating Area Plating Material Thickness | .025 μm[100 μin] |
| Contact Shape & Form | Single Beam |
| PCB Contact Termination Area Plating Material | Gold |
| Contact Base Material | Phosphor Bronze |
| Contact Mating Location | Bottom |
| Contact Mating Area Plating Material | Gold |
| Contact Current Rating (Max) | .5 A |

Termination Features

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|---|---------------|
| Termination Method to Printed Circuit Board | Surface Mount |
|---|---------------|

Mechanical Attachment

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|-------------------------|-------------|
| Mating Alignment | With |
| PCB Mount Alignment | Without |
| PCB Mount Retention | With |
| Connector Mounting Type | Board Mount |

Housing Features

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|--------------------|------------------------------|
| Housing Material | LCP (Liquid Crystal Polymer) |
| Housing Color | Natural |
| Centerline (Pitch) | .5 mm[.02 in] |

Dimensions

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|------------------------------|--------------------|
| Connector Length | 26.43 mm[1.041 in] |
| Connector Height | 2.05 mm[.08 in] |
| Connector Width | 5.1 mm[.2 in] |
| Accepts Flex Cable Thickness | .3 mm[.012 in] |

Usage Conditions

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|-----------------------------|---------------------------|
| Operating Temperature Range | -40 – 85 °C[-40 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

| | |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Identification Marking

| | |
|--------------------------------|---------|
| Circuit Identification Feature | Without |
|--------------------------------|---------|

Packaging Features

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|--|--|
| | |
|--|--|



| | |
|--------------------|------|
| Packaging Quantity | 2000 |
| Packaging Method | Tape |

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

| | |
|---|--|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Compliant |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUL 2021 (219) Does not contain REACH SVHC |
| Halogen Content | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
| Solder Process Capability | Reflow solder capable to 260°C |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Documents

Product Drawings

[FPC CONN. 0.5MM PITCH B/C, 42P](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_4-1734592-2_C_c-4-1734592-2-c.2d_dxf.zip](#)

English

Customer View Model



[ENG_CVM_CVM_4-1734592-2_C_c-4-1734592-2-c.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_4-1734592-2_C_c-4-1734592-2-c.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[1-1773959-6-flexible-printed-circuit-con](#)

English

[1-1773959-7-FPC-Connectors-CN](#)

[FPC Connector Family](#)

English

Product Specifications

[Crimping of AMP EI Series Connector Contacts](#)

Japanese

[Application Specification](#)

Japanese