0.30mm Pitch FPC – F13S Series

RIGHT ANGLE ZIF FLEX CONNECTOR

F13S series is a right angle ZIF flex connector with a front flip lock, surface mount termination, and bottom side contact. It features a small profile with 0.3mm pitch and 1.0mm height. This series features a FPC thickness of 0.20mm and provide enhanced durability.

- Easy to operate
- Strong FPC retention force makes it vibration-proof
- Enhanced contact stability
- Ensures high solderability and high durability
- Small pitch with low profile, staggered layout

TARGET MARKETS

FEATURES

- ZIF (Zero Insertion Force) mechanism
- Front flip locking function
- Bottom side contact
- Design against solder and flux wicking
- 11 to 61 positions available
- Lead and halogen-free

BENEFITS

- Absence of frictional mating wear results in high mating cycle life
- Easy to operate and strong FPC retention makes it vibration-proof
- Ensures enhanced contact stability
- Ensures high solderability
- Comprehensive range to satisfy different customer requirements
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

▪ Housing: LCP, Black color (UL94V–0)

▪ Actuator: PA9T, Black color (UL94V–0)

▪ Contact: Phosphor Bronze, T=0.12mm, 1~3μm Ni under plating

▪ Anchor–plate: Brass, T=0.15mm, 1~3μm Ni under plating, 2~4μm Tin plating

MECHANICAL PERFORMANCE

▪ FFC/FPC Retention Force: 0.15N/pin

▪ Terminal Retention Force: 0.5N/terminal min.

▪ Fixed Plate Retention Force: 0.5N/plate min.

▪ Durability: 20 mating cycles

ELECTRICAL PERFORMANCE

▪ Voltage Rating: 50VAC/VDC

▪ Current Rating: 0.3A

▪ Contact Resistance: 80mΩ max.

▪ Insulation Resistance: 500MΩ min.

▪ Dielectric Withstanding Voltage: No short or breakdown after 250VAC, 2mA, 1min.

APPROVALS AND CERTIFICATIONS

▪ UL 94V–0

▪ RoHS compliant

ENVIRONMENTAL

▪ Operating Temperature Range: –50°C to +105°C

SPECIFICATION

▪ Aorora Product Specification: IS.EQC.178

PACKAGING

▪ Tape & Reel

TARGET MARKETS/APPLICATIONS

Notebook
Tablets
Wearables
Gaming
LCD & PDP TV

PART NUMBER SELECTOR

| F | 1 | 3S | — | 1 | A | 7H | 1 | — | E | 8 | C | XX |

Product Type — 3S

Pitch

| 1 | 0.30mm |

Product Family

| F | FPC/FFC Connector |

Housing Material

| 1 | LCP |

Housing Color

| A | Natural |

Plating

| 7H | Phosphor Bronze 0.075μm min. Au (Contact Area) |

Reel — 1

Number of positions — XX

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