

0.50mm Pitch FFC/FPC - HRS-F31E Series

RIGHT ANGLE ZIF FLEX CONNECTOR

HRS-F31E series is a 0.50mm pitch right angle ZIF flex connector with front flip mechanism, double contact and surface mount termination. This connector features a height of 1.25mm and comes in 15 to 30 contacts. This connector comes with a robust design and prevent solder and flux wicking. These are ideal for automotive, data, industrial, communication, consumer and medical applications.

- Easy to operate and strong FFC/FPC retention makes it vibration-proof
- Dual contact points, provide enhanced contact stability
- Ensures high solderability and high durability



TARGET MARKETS



FEATURES

- ZIF (Zero Insertion Force) mechanism
- Front flip feature
- Double contact points
- Design against solder and flux wicking
- High temperature thermoplastic housing
- 15 to 30 positions available
- Lead and halogen-free

BENEFITS

- Absence of frictional mating wear results in high mating cycle life
- Easy to operate and strong FFC/FPC retention makes it vibration-proof
- Ensures enhanced contact stability
- Ensures high solderability
- Wide operating temperature range of -40°C to $+105^{\circ}\text{C}$
- Comprehensive range to satisfy different customer requirements
- Meets environmental, health and safety requirements

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TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, natural color (UL94V-0)
- Actuator: PA9T, black color (UL94V-0)
- Contact: Phosphor bronze, T=0.20mm
- Anchor-plate: Brass, T=0.15mm

MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 20gf/pin
- Terminal Retention Force: 50gf/terminal min.
- Anchor-plate Retention Force: 50gf/plate min.
- Durability: 30 mating cycles

ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating: 0.5A
- Contact Resistance: 30MΩ max.
- Insulation Resistance: 500MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 500V AC, 2mA, 1min.

PACKAGING

- Tape & Reel

APPROVALS AND CERTIFICATIONS

- UL file number E106764
- RoHS compliant

SPECIFICATION

- Product Specification: IS.EQC.042

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +105°C

TARGET MARKETS/APPLICATIONS



Car Multimedia
Car Navigation
Dashboard
PND



Base Station
Power
Switches



Notebook
Tablets
Wearables
Gaming
DSC
LCD & PDP TV



Router
Server
ODD
HDD



Sensing element
Monitoring camera
Human Machine Interface
Industrial PC
Robotics



Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump

PART NUMBER SELECTOR

