# HLW Series

## 1.00MM NON-ZIF RIGHT-ANGLE AND STRAIGHT FFC-FPC CONNECTOR

Non-ZIF FFC-FPC Connector series with top and bottom contact type. These through hole connectors features a height of 3.9mm for right-angle and 5.90mm for straight type, with 4 to 32 contacts. HLW series connectors have a proven track record in automotive, data, industrial, telecommunications, consumer, and medical application equipment.

- Easy to operate and strong FFC/FPC retention makes it vibration-proof
- Ensures high solderability and high durability
- Operating temperature range of -55°C to +85°C



### TARGET MARKETS



### FEATURES

- Non-ZIF (Zero Insertion Force) mechanism
- Design against solder and flux wicking
- High-temperature, dimensional stable thermoplastic housing
- 4 to 32 positions available
- Lead and halogen-free

### BENEFITS

- Achieves simple operation and stable contact with FFC/FPC
- Ensures high solderability
- Covers general operating temperature range of -55°C to +85°C
- Supports many applications as a general-purpose product
- Meet environmental, healthy and safety requirement

# TECHNICAL INFORMATION

## MATERIAL

- Housing: PBT, black color (UL94V-0): LF
  LCP, natural color (UL94V-0): HLF
- Contact: Phosphor bronze

## MECHANICAL PERFORMANCE

- FFC/FPC Insertion Force: 1.96N/contact max.
- FFC/FPC Retention Force: 0.49N/contact min.
- Durability: 10 mating cycles

## ELECTRICAL PERFORMANCE

- Voltage Rating: 100V A.C./D.C.
- Current Rating: 1.0A A.C./D.C.
- Contact Resistance: 30mΩ max.(initial value)
- Insulation Resistance: 500MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 500V A.C., 1mA, 1min.

## ENVIRONMENTAL

- Operating Temperature Range: -55°C to +85°C

## APPROVALS & CERTIFICATION

- RoHS compliant

## SPECIFICATIONS

- Orientation: Right-angle and straight
- Cable Termination: Non-ZIF
- Cable type: FFC/ FPC
- Board Termination: Through hole (DIP)
- Contact Location: Top
- Height: 3.9mm (right-angle) and 5.9mm (straight)
- Lead free tin plating

## TARGET MARKETS/APPLICATIONS



Dashboard
Lighting



Gaming
LCD & OLED Displays



Base Station
Switches
Controllers
Storage



Controllers
HMI
Vending Machines
PLC
Drives



Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump
Hospital Bed

# PART NUMBER SELECTOR

| HLW | — | XX | R- | 2 | C | 7 | HLF |
|---|---|---|---|---|---|---|---|

- HLW: Series Name
- XX: Pin count: 4 to 32
- R-: R: Right angle type; S: Straight(Vertical) type
- 2: 2: FFC/FPC
- C: A: straight terminal; C: with Kink terminal
- 7: Terminal length 3.1mm
- HLF: LF: Lead free; HLF: Halogen free + Lead free

| Terminal Plating | |
|---|---|
| Contact area | Solder tail |
| Matte Tin: 2µm min. | Matte Tin: 1µm min. |

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

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