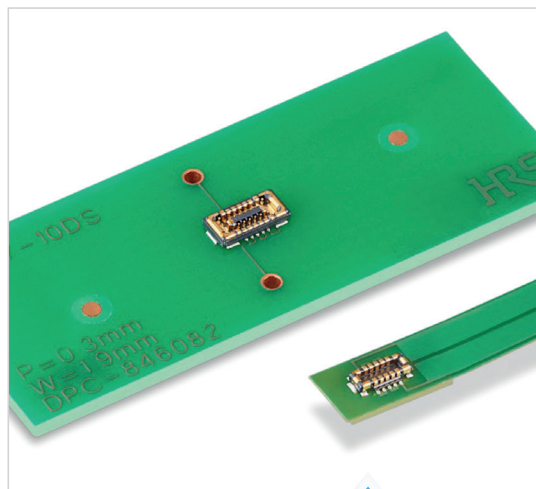


## BM57 Series

0.3mm Pitch, 0.6mm Stacking Height, 1.9mm Width  
Low-Profile Hybrid FPC-to-Board Connector Supporting 5A

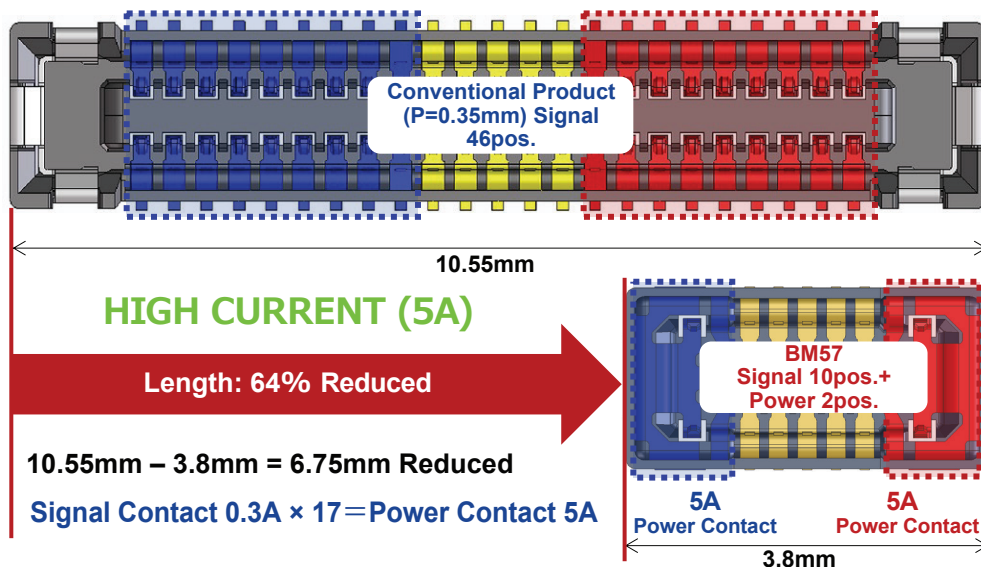
### FEATURES:

1. Low-profile design with high power supply capacity
  - Rated current: 5A for power contact, 0.3A for signal contact
  - 0.6mm stacking height, 1.9mm width
2. Full armored design prevents housing damage
3. Easy mating operation with wide self alignment range
4. Insert molded header and receptacle design
  - Solder Wicking Prevention
5. Multi-point soldering enhances PCB peeling strength



Power Contact Saves Space

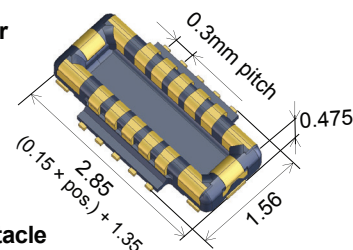
### 1. Low-profile design with high power supply capacity



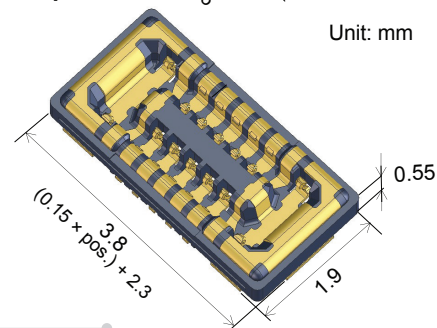
### DIMENSIONS

Example: 10pos.

Header

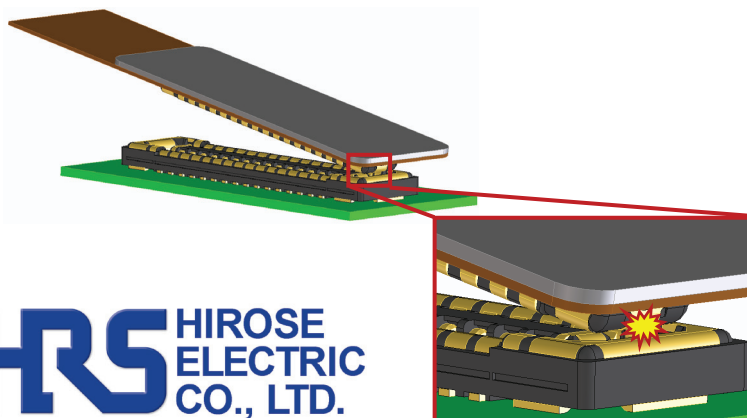


Receptacle

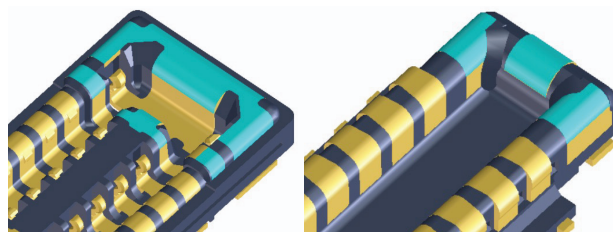


Unit: mm

### 2. Full armored design prevents housing damage



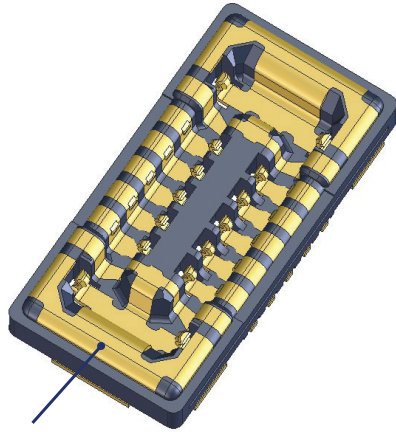
**ALL MATING SURFACES  
COVERED BY METAL**



### 3. Easy mating operation with wide self alignment range

#### SELF-ALIGNMENT RANGE

Pitch Direction:  $\pm 0.3\text{mm}$   
Width Direction:  $\pm 0.22\text{mm}$



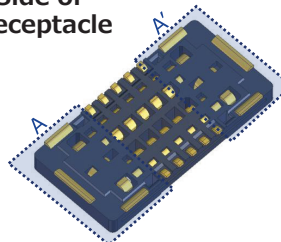
#### METAL GUIDE RIBS

Effectively uses dead space to expand self-alignment range when mating

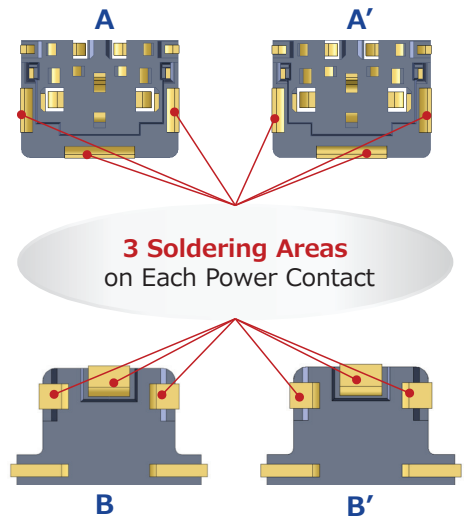
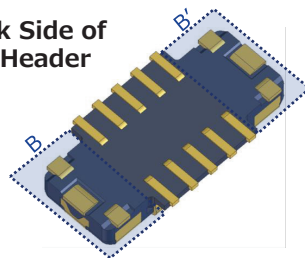
#### Enhanced PCB Peeling Strength

##### 3 Soldering Areas on Each Power Contact

Back Side of the Receptacle



Back Side of the Header



### Specifications

#### MATERIAL AND FINISH

| Component      | Material     | Finish, Remarks                   |
|----------------|--------------|-----------------------------------|
| Housing        | LCP*1 Copper | Black, UL94V-0                    |
| Signal Contact | Copper Alloy | Gold Plated (Nickel Underplating) |
| Power Contact  | Copper Alloy | Gold Plated (Nickel Underplating) |

\*1 This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.

#### PERFORMANCE CHARACTERISTICS

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Rated Current         | Power Contact: 5A<br>Signal Contact: 0.3A             |
| Rated Voltage         | 30V AC/DC                                             |
| Operating Temperature | -55 to +85°C*2                                        |
| Contact Resistance    | Power Contact: 30mΩ Max.<br>Signal Contact: 90mΩ Max. |
| Withstanding Voltage  | 100V AC for 1 min.                                    |
| Insulation Resistance | 50MΩ Min. (100V DC)                                   |
| Mating Durability     | 10 times                                              |

- Pin Count Variation: 10pos.

\*2 Includes the temperature rise due to current flow.



For additional information please go to  
<https://www.hirose.com/product/series/BM57>  
 Specifications herein are subject to change without notice.  
 Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

