



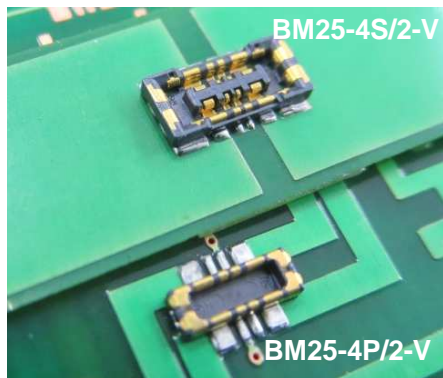
**THE DATASHEET OF  
BM25-4S/2-V(53)**



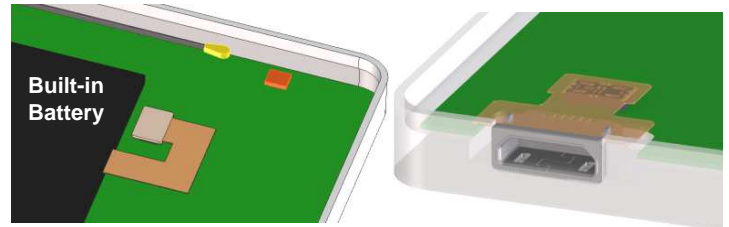
**HRS**

# BM25 Series

## Small Hybrid Board to FPC Connectors up to 9 Amps



### Connection Examples



Battery Connection

USB Connection

### ◆ Features

- Low-profile design with the capability of high current power supply, suitable to connecting battery for a mobile device
  - Rated current: 9 Amps for power contact, 1 Amp for signal contact
  - Stacking height: 0.7 mm, Depth: 2.6 mm
- Minimized contact resistance to facilitate power saving
- Multipoint contact with clipping contacts for high reliability
- Original metal guide structure for high robustness
- Wide self alignment range to realize smooth mating operation
- Integrally molded header and receptacle to prevent solder wicking
- RoHS compliant, Halogen-free\* product

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

### ◆ Specifications

Component	Material	Finish
Housing	LCP*1	UL94V-0, Black
Contact	Copper Alloy	Gold plated over Nickel under plating
Metal Fitting	Copper Alloy	Gold plated over Nickel under plating

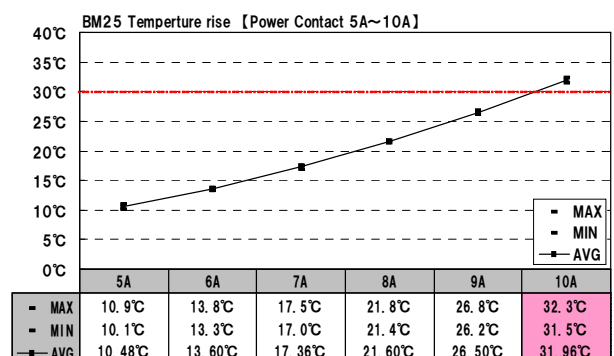
Rated Current	Power Contact: 9 Amps, Signal Contact: 1 Amp
Rated Voltage	30 V AC/DC
Operating Temperature Range	-40 °C to +85 °C*2
Contact Resistance	Power Contact: 5 mΩ, Signal Contact: 30 mΩ (20 mV AC, 1 kHz, 1 mA)
Withstanding Voltage	150V AC, for one minute
Insulation Resistance	1000 MΩ or above (100 V DC)
Durability	10 cycles

\*Include the temperature rising by current flow.

### ◆ Power up to 9 Amps

30 °C or less temperature rising while 9 Amps power being applied.

\* Apply 1 Amp to each signal contact.

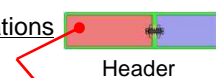


### Test Board Specifications

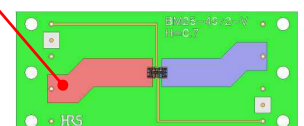
Pattern Width: 7 mm

PCB FR-4: 70 × 20 × 0.8

Copper Foil: 35 μm



Header



Receptacle

### ◆ Variations

4 pos. (2 pos. for power + 4 pos. for signal)

Specifications herein are subject to change without notice. Contact Hirose for latest specifications, drawings, or availabilities.

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- [View BM25-4S/2-V\(53\) on WIN SOURCE](#)
- [Hirose Electric Co Ltd Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management