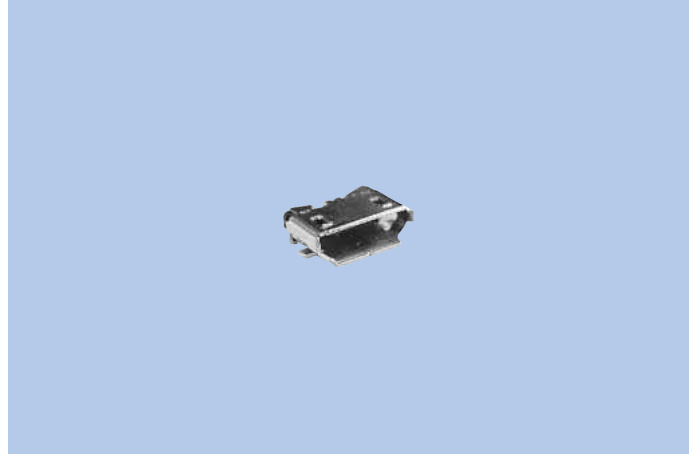


Micro-USB Connectors "Micro-B Series" CAM-H48 Series

FEATURES

1. Compatible with Micro-USB standards. (USB2.0)
2. Small and more durable than Mini-USB connectors.
3. Soldering area to make connectors more reliable.



CAM-H48 Series LIST

Model	Receptacle	Connector Type
CAM-H48N	Normal type	Type B
CAM-H48ML	Mid-mount type	
CAM-H48R	Reverse type	
CAM-H48ND	Normal DIP type	
CAM-H48RD	Reverse DIP type	

HOW TO ORDER

1. CAM-H48N

H48N-005-21 0-A C G M A
 1 2 3 4 5 6 7 8 9

- 1 Series No. (H48N)
- 2 No. of contacts (005 : 5pins)
- 3 Housing material (21 : LCP resin)
- 4 UL grade (0 : UL94V-0)
- 5 Contact plating (A : Gold)
- 6 Contact plating thickness (C : 0.76µm)
- 7 Contact style (G : Angle SMT)
(E : Straight SMT)
- 8 Coupling side accessories (M : Shield Case)
- 9 Board side accessories (A : None)

2. CAM-H48ML

H48ML-005-21 0-A C E M A
 1 2 3 4 5 6 7 8 9

- 1 Series No. (H48ML)
- 2 No. of contacts (005 : 5pins)
- 3 Housing material (21 : LCP resin)
- 4 UL grade (0 : UL94V-0)
- 5 Contact plating (A : Gold)
- 6 Contact plating thickness (C : 0.76µm)
- 7 Contact style (G : Angle SMT)
(E : Straight SMT)
- 8 Coupling side accessories (M : Shield Case)
- 9 Board side accessories (A : None)

3. CAM-H48R

H48R-005-21 0-A C G M A
1 2 3 4 5 6 7 8 9

- 1 Series No. (H48R)
- 2 No. of contacts (005 : 5pins)
- 3 Housing material (21 : LCP resin)
- 4 UL grade (0 : UL94V-0)
- 5 Contact plating (A : Gold)
- 6 Contact plating thickness (C : 0.76μm)
- 7 Contact style (G : Angle SMT)
(E : Straight SMT)
- 8 Coupling side accessories (M : Shield Case)
- 9 Board side accessories (A : None)

4. CAM-H48ND

H48ND-005-21 0-A C G M A
1 2 3 4 5 6 7 8 9

- 1 Series No. (H48ND)
- 2 No. of contacts (005 : 5pins)
- 3 Housing material (21 : LCP resin)
- 4 UL grade (0 : UL94V-0)
- 5 Contact plating (A : Gold)
- 6 Contact plating thickness (C : 0.76μm)
- 7 Contact style (G : Angle SMT)
(E : Straight SMT)
- 8 Coupling side accessories (M : Shield Case)
- 9 Board side accessories (A : None)

5. CAM-H48RD

H48RD-005-21 0-A C G M A
1 2 3 4 5 6 7 8 9

- 1 Series No. (H48RD)
- 2 No. of contacts (005 : 5pins)
- 3 Housing material (21 : LCP resin)
- 4 UL grade (0 : UL94V-0)
- 5 Contact plating (A : Gold)
- 6 Contact plating thickness (C : 0.76μm)
- 7 Contact style (G : Angle SMT)
(E : Straight SMT)
- 8 Coupling side accessories (M : Shield Case)
- 9 Board side accessories (A : None)

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Rated Voltage	5V AC (rms)
Rated Current	When power is being applied on the power supply terminal; 1.8A/1 contact (No. 1&5 pin) When power is being applied on the signal terminal; 1A/1 contact (No. 2&3&4 pin)
Withstanding Voltage	100V AC (rms) 1minute
Contact Resistance	30mΩ max.

MECHANICAL CHARACTERISTICS

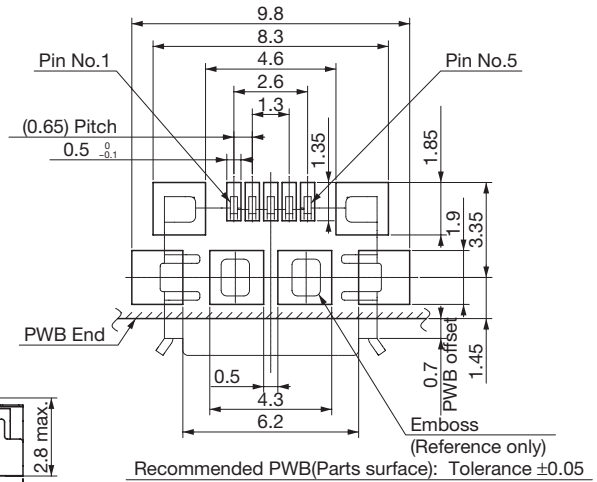
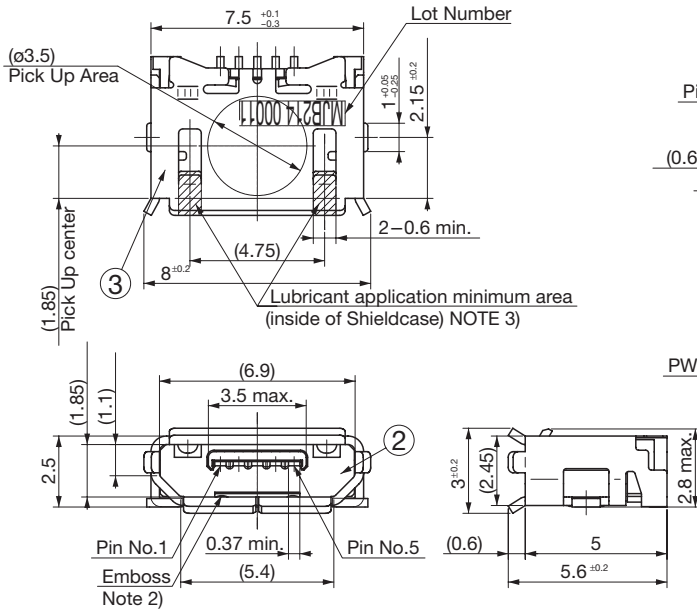
Life (Matching Cycle)	10,000times
Total Insertion Force	35N (3.57kgf) max.
Total Withdrawal Force	Beginning 8N (0.82kgf) min. After 10,000 times 8~20N (0.82~2.04kgf)

MATERIAL & FINISH

Component parts		Material	Finish
CAM-H48 Series	Housing	LCP	Black
	Contact	Copper alloy	Gold plating
	Shield Case	SUS	Ni+Sn reflow

DIMENSIONS

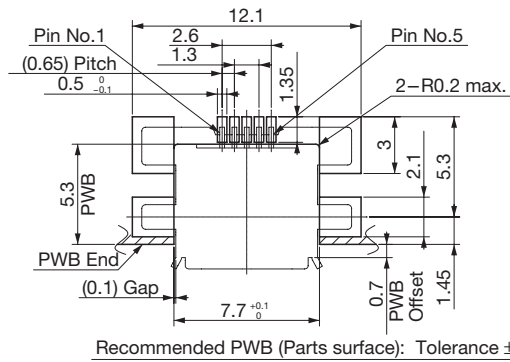
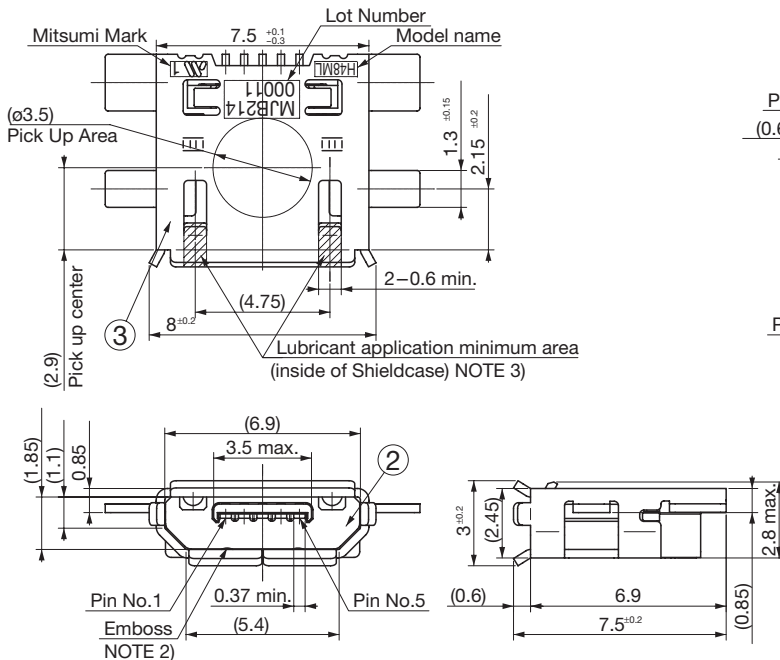
CAM-H48N



- Notes
- 1) Correspond to Micro-USB specification.
 - 2) Provides an emboss shape and shield tail shape.
 - 3) It applies a fluorinated lubricant to the illustration range.

CAM-H48ML

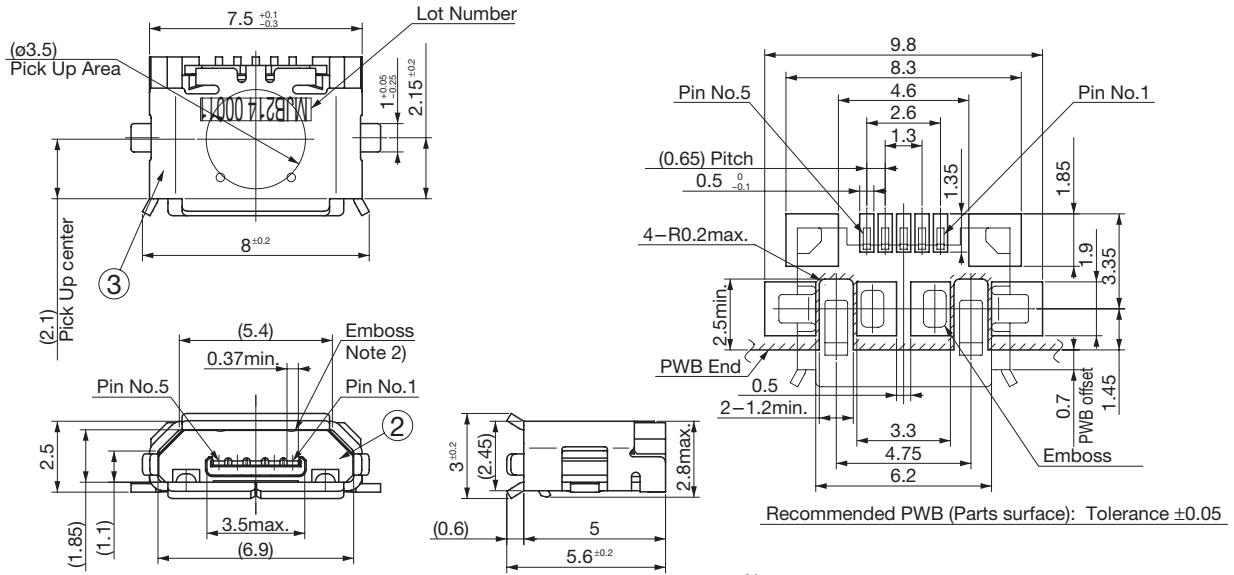
Unit: mm



- NOTES
- 1) Correspond to Micro-USB specification.
 - 2) Provides an emboss shape. Purpose for peeling strength up, provides 4 portion of wing shape and total length is 7.5mm.
 - 3) It applies a fluorinated lubricant to the illustration range.

Unit: mm

CAM-H48R

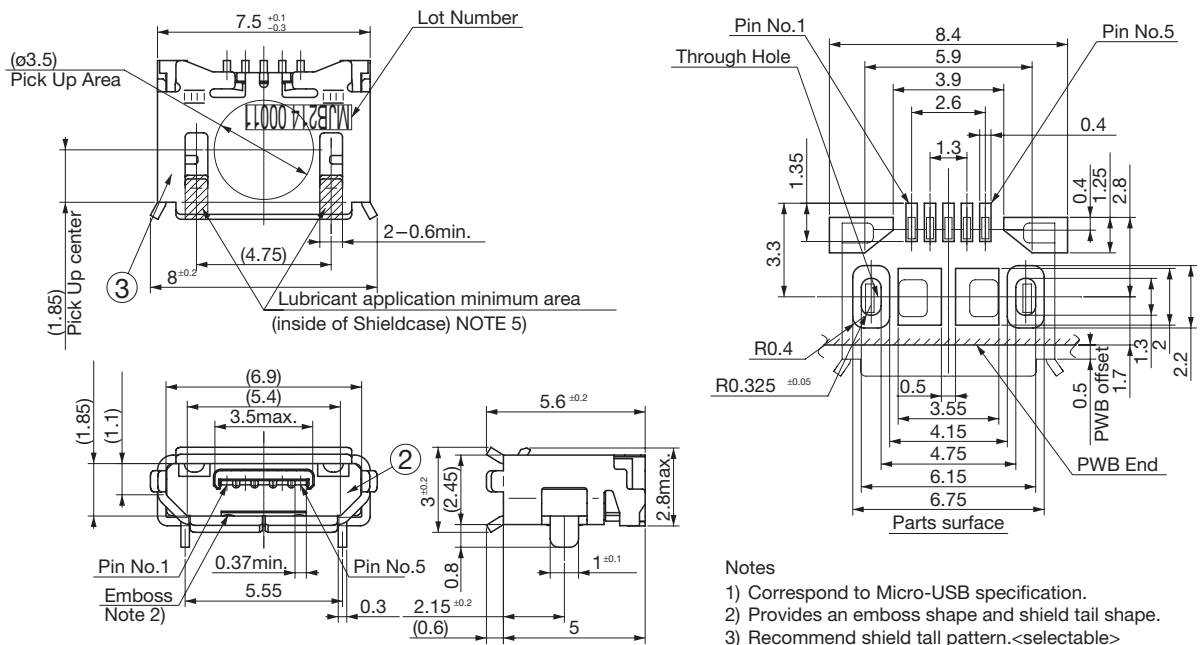


Notes

- 1) Correspond to Micro-USB specification.
- 2) Provides an emboss shape and shield tail shape.
- 3) It applies a fluorinated lubricant to the illustration range.

CAM-H48ND

Unit: mm



Notes

- 1) Correspond to Micro-USB specification.
- 2) Provides an emboss shape and shield tail shape.
- 3) Recommend shield tall pattern.<selectable>
- 4) The product is made for reflow mounting.
The soldering area of the dip part is reduced to prevent the solder from going up to the connector.
- 5) It applies a fluorinated lubricant to the illustration range.

Unit: mm

