chanhvinh.com

Lumberg
passion for connections

03 0307

Circular connectors with threaded joint M16 acc. to IEC 61076-2-106, IP40/IP68

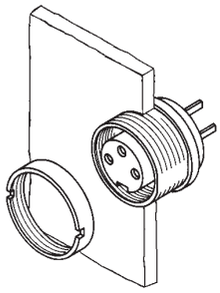


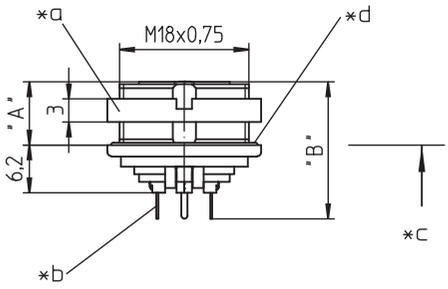
Chassis socket acc. to IEC 61076-2-106, IP68, with threaded joint, for printed circuit boards, for back side mounting

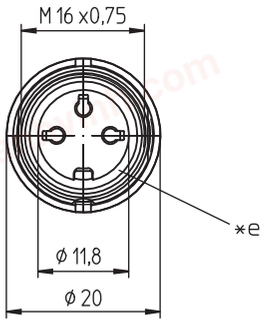
chanhvinh.com

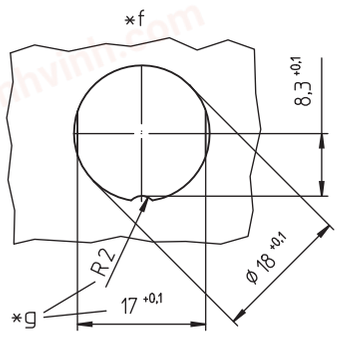
Lumberg
passion for connections

# 03 0307






## Environmental conditions

| | |
|---|---|
| Temperature range | -40 °C/+85 °C |

## Materials

| | |
|---|---|
| Insulating body | PA GF, V-0 according to UL94 |
| Contact bush | CuZn, pre-nickel and silver-plated, passivated, tin-plated in solder area<br>(3-8 poles)<br>CuZn, pre-nickel and gold-plated, tin-plated in solder area<br>(12-14 poles) |
| Housing | Zn diecast, pre-copper and nickel-plated |
| Ring screw | CuZn, nickel-plated |
| Seal | CR (flat), NBR (O-ring) |

## Mechanical data

| | |
|---|---|
| Insertion force/contact | ≤ 5.0 N [1] |
| Withdrawal force/contact | ≥ 1.2 N (3-8 poles)<br>≥ 0.9 N (12-14 poles) [1] |
| Tightening torque connector | 1-3 Nm |
| Tightening torque nut | 1-3 Nm |
| Thickness of mounting plate | 1-5 mm |
| Protection class | IP68 [2] |

[1] measured with a polished steel pin, nominal thickness 1.5 mm (1.0 mm with 12-14 poles)

[2] according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart; IPX8 requirements under agreement between manufacturer and user

## Electrical data (at $T_{amb}$ 20 °C)

| | |
|---|---|
| Contact resistance | ≤ 5 mΩ |
| Rated current | 5 A ($T_{amb}$ 40 °C, 3-8 poles)<br>3 A ($T_{amb}$ 40 °C, 12-14 poles) |
| Rated voltage | with pollution degree 1:<br>300 V (versions 03, 04, 05-1, 06, 07)<br>100 V (versions 05, 07-1, 08, 08-1)<br>160 V (versions 12, 14)<br>with pollution degree 2:<br>250 V (versions 03, 04)<br>32 V (versions 05, 07-1, 08, 08-1)<br>160 V (versions 05-1, 06, 07, 12, 14) |
| Rated impulse voltage | 1500 V (versions 03, 04, 05-1, 06, 07, 12, 14)<br>500 V (versions 05, 07-1, 08, 08-1) |
| Material group | II (IEC)/1 (UL) (400 ≤ CTI < 600) |
| Overvoltage category | I |
| Insulation resistance | > 100 MΩ |

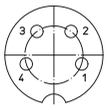
chanhvinh.com

# 03 0307

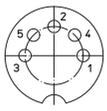
## Pin configurations, solder side view



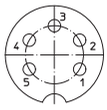

03-a
0307 03



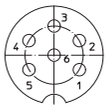

04-a
0307 04



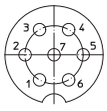

05-b
0307 05



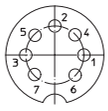

05-a
0307 05-1




06-a
0307 06




07-a
0307 07




07-b
0307 07-1



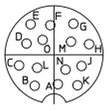

0307 08




08-a
0307 08-1




12-a
0307 12




14-a
0307 14

## Associated products

Counterparts

- 0331
- 0332
- 0332-1
- 033200
- 0365
- 036500

Accessories

- 0322 C 16
- 0381
- 038199
- 0384
- 0385
- 038799

Harnessing equipment

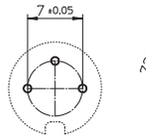
- ZMS 20

chanhvinh.com

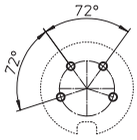
Lumberg
passion for connections

# 03 0307

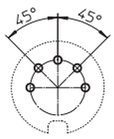
**Printed circuit board layout, solder side view**



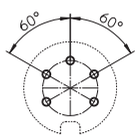

03-a
0307 03



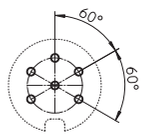

04-a
0307 04



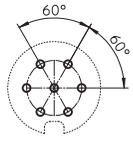

05-b
0307 05



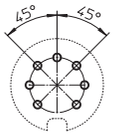

05-a
0307 05-1



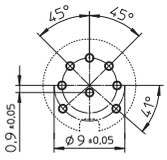

06-a
0307 06



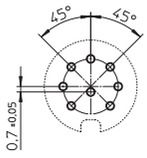

07-a
0307 07



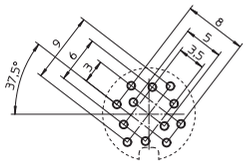

07-b
0307 07-1



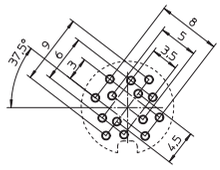

0307 08




08-a
0307 08-1




12-a
0307 12




14-a
0307 14

*a nut enclosed separately
*b for bore hole of PCB
Ø 1,0 mm (0307 03–0307 08-1)
Ø 0,7 mm (0307 12–0307 14)
*c mounting direction
*d O-ring gasket
*e flat gasket
*f port in mounting plate
*g anti-rotation, alternative execution

chanhvinh.com

Lumberg
passion for connections

# 03 0307

| Designation | Pole Number | PU (Pieces) | MDQ (Pieces) | Dimensions | |
|---|---|---|---|---|---|
| | | | | A (mm) | B (mm) |
| 0307 03 | 3 | 50 | 100 | 8.2 | 17.8 |
| 0307 04 | 4 | 50 | 100 | 8.2 | 17.8 |
| 0307 05 | 5 | 50 | 100 | 8.2 | 17.8 |
| 0307 05-1 | 5 | 50 | 100 | 8.2 | 17.8 |
| 0307 06 | 6 | 50 | 100 | 8.2 | 17.8 |
| 0307 07 | 7 | 50 | 100 | 8.2 | 17.8 |
| 0307 07-1 | 7 | 50 | 100 | 8.2 | 17.8 |
| 0307 08 | 8 | 50 | 100 | 8.2 | 17.8 |
| 0307 08-1 | 8 | 50 | 100 | 8.2 | 17.8 |
| 0307 12 | 12 | 50 | 100 | 7.9 | 17.1 |
| 0307 14 | 14 | 50 | 100 | 7.9 | 17.1 |

**Packaging:**
in a cardboard box