

# Product Data Sheet

DIN 41612 straight Male, type R/3,  
Part No. 115-78015

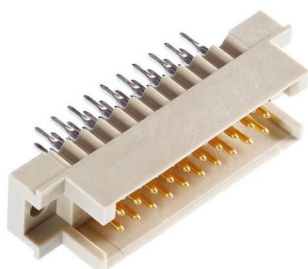
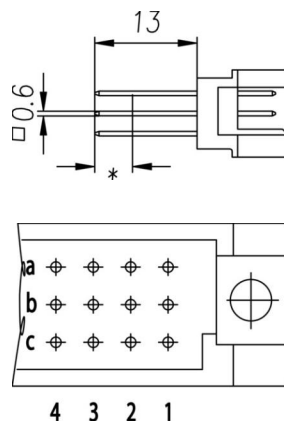


Illustration similar



Parallel



Perpendicular



Press-fit



Rugged

- tail length 13 mm
- with a contact area in performance level 2
- number of positions: 30
- press-fit technology
- performance level 2



» to product on [www.ept.de](http://www.ept.de)



» to product group DIN 41612

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## Technical Specifications

### Basics

|                             |                         |
|-----------------------------|-------------------------|
| Specification               | IEC 60603-2 (DIN 41612) |
| Performance Level           | 2                       |
| No. of Contacts             | 30                      |
| Termination Technology      | press-fit technology    |
| Termination Length          | 13 mm                   |
| Board-to-Board Distance     | 16.85 mm                |
| Operating Temperature Range | -55°C to +125°C         |

### Material

|                               |                                       |
|-------------------------------|---------------------------------------|
| Insulator Material            | glass-fiber reinforced PBT, UL 94 V-0 |
| CTI value<br><i>IEC 60112</i> | 200                                   |
| Contact Material              | copper alloy                          |

### Mechanical

|                          |                   |
|--------------------------|-------------------|
| Pitch                    | 2.54 mm           |
| Mating Force             | 28 N              |
| Separating Force per Pin | > 0.15 N          |
| Durability               | 400 mating cycles |

### Electrical

|                        |                      |
|------------------------|----------------------|
| Operational Current    | 2.6 A                |
| Test Voltage           | 1000 V               |
| Contact Resistance     | 20 mΩ                |
| Clearance and Creepage | ≥ 1.2 mm             |
| Insulation Resistance  | > 10 <sup>6</sup> MΩ |

### Approval / Compliance

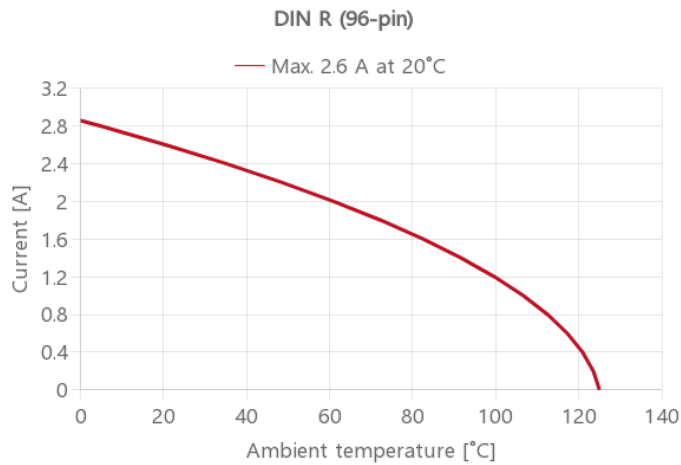
|             |                |
|-------------|----------------|
| UL file     | E130314        |
| Environment | RoHS compliant |

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## Derating Diagram



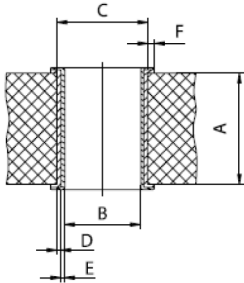
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## Hole Specifications

Plated through-hole according to IEC 60352-5



| Material        | chem. Sn Leiterplatten        |
|-----------------|-------------------------------|
| Nominal Hole    | Ø 1.0 mm                      |
| A PCB Thickness | min. 1.44 mm                  |
| B Plated Hole   | Ø 1.0 +0.09 / -0.06 mm        |
| C Drill Hole    | 1.15 ±0.025 mm                |
| D Cu Plating    | min. 25 µm                    |
| E Surface       | chem. Sn Schicht, max. 1.5 µm |
| F Annular Ring  | min. 0.1 mm                   |

| Material        | Ni, Au Leiterplatten                                |
|-----------------|-----------------------------------------------------|
| Nominal Hole    | Ø 1.0 mm                                            |
| A PCB Thickness | min. 1.44 mm                                        |
| B Plated Hole   | Ø 1.0 +0.09 / -0.06 mm                              |
| C Drill Hole    | 1.15 ±0.025 mm                                      |
| D Cu Plating    | min. 25 µm                                          |
| E Surface       | Ni, Au Schicht, 0.05 - 0.2 µm Au über 2.5 - 5 µm Ni |
| F Annular Ring  | min. 0.1 mm                                         |

| Material        | rein Cu Leiterplatten                         |
|-----------------|-----------------------------------------------|
| Nominal Hole    | Ø 1.0 mm                                      |
| A PCB Thickness | min. 1.44 mm                                  |
| B Plated Hole   | Ø 1.0 +0.09 / -0.06 mm                        |
| C Drill Hole    | 1.15 ±0.025 mm                                |
| D Cu Plating    | min. 25 µm                                    |
| E Surface       | OSP, z.B. GLICOAT-SMD (F2) mit 0.12 - 0.15 µm |
| F Annular Ring  | min. 0.1 mm                                   |

| Material        | HAL Sn Leiterplatten   |
|-----------------|------------------------|
| Nominal Hole    | Ø 1.0 mm               |
| A PCB Thickness | min. 1.44 mm           |
| B Plated Hole   | Ø 1.0 +0.09 / -0.06 mm |
| C Drill Hole    | 1.15 ±0.025 mm         |
| D Cu Plating    | min. 25 µm             |
| E Surface       | HAL Sn, 5 - 15 µm      |
| F Annular Ring  | min. 0.1 mm            |

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## Modifications

Available on request

- First mate, last-mate contacts
- without mounting flange
- Custom length
- Grade I + III or custom
- custom loading

## Drawings

Component data in 2D and 3D format you can download here:

[» PDF](#)

[» 3D IGES](#)

[» 3D STEP](#)

[» 3D PDF](#)