

Product Data Sheet

DIN 41612 Female straight, type F low profile,
Part No. 110-61084

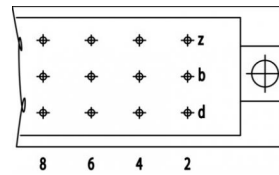
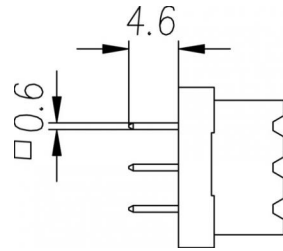


Illustration similar



Parallel



Perpendicular



Press-fit



Power



Rugged

- Termination length 4.6 mm
- 48 contacts
- Press-fit
- performance level 2



» to product on www.ept.de



» to product group DIN 41612

Product Data Sheet

DIN 41612 Female straight, type F low profile,
Part No. 110-61084



Technical Specifications

Basics

Specification	IEC 60603-2 (DIN 41612)
Performance Level	2
No. of Contacts	48
Termination Technology	Press-fit
Termination Length	4.6 mm
Board-to-Board Distance	24.4 mm
Operating Temperature Range	-55°C to +125°C

Material

Insulator Material	PBT glass filled UL 94 V-0
CTI value <i>IEC 60112</i>	200
Contact Material	Copper alloy

Mechanical

Pitch	5.08 x 3.81 mm
Mating Force	< 75 N
Separating Force per Pin	>0.2 N
Durability	400 mating cycles

Electrical

Operational Current	5.6 A
Contact Resistance	< 15 mΩ
Clearance and Creepage	cr: ≥ 3.0 mm, cl: ≥ 1.6 mm
Insulation Resistance	>10 ⁶ MΩ
Test Voltage	1550 V

Approval / Compliance

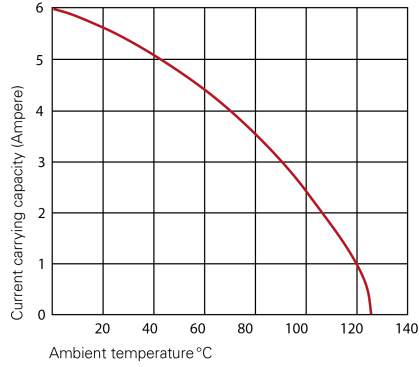
UL file	E130314
Environment	RoHS compliant

Product Data Sheet

DIN 41612 Female straight, type F low profile,
Part No. 110-61084



Derating Diagram



Type D, E, F, G

20°C 5.6 A
70°C 4.0 A
100°C 2.5 A

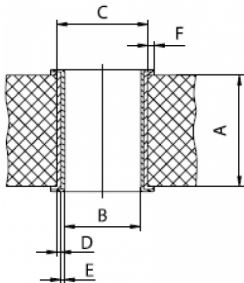
Product Data Sheet

DIN 41612 Female straight, type F low profile,
Part No. 110-61084



Hole Specifications

Plated through-hole according to IEC 60352-5



Material	imm. Sn printed circuit boards
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	imm. Sn plating, max. 1.5 µm
F Annular Ring	min. 0.1 mm

Material	Ni, Au printed circuit boards
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 plating, 0.05 - 0.2 µm Au over 2.5 - 5 µm Ni
F Annular Ring	min. 0.1 mm

Material	pure Cu printed circuit boards
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) with 0.12 - 0.15 µm
F Annular Ring	min. 0.1 mm

Material	HAL Sn printed circuit boards
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

Product Data Sheet

DIN 41612 Female straight, type F low profile,
Part No. 110-61084



Modifications

Available on request

- Without flange
- Special contact length
- Performance levels I + III or customer-specific
- Contact arrangement

Accessories

» DIN 41612 Coding type D, E, F and G
Part Number 106-10001

Drawings

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

[» PDF](#)

[» 3D IGES](#)

[» 3D STEP](#)

[» 3D PDF](#)