Product Data Sheet

DIN 41612 Straight-type spring-loaded connector, Type F, Part No. 110-40005



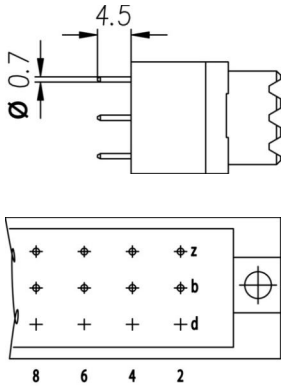


Illustration similar


Parallel


Perpendicular


Through Hole


Power


Rugged

- Connector length: 4.5 mm
- Connection Ø 0.7 mm
- Number of poles: 32
- Soldering Techniques
- Grade 2

» to product on 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	32
Termination Technology	Soldering Techniques
Termination Length	4.5 mm
Board-to-Board Distance	34.1 mm
Operating Temperature Range	-55°C to +125°C

Material

Insulator Material	Glass-fiber-reinforced PBT, UL 94 V-0
CTI value *IEC 60112*	200
Contact Material	copper alloy

Mechanical

Pitch	5.08 x 3.81 mm
Mating Force	50 N
Separating Force per Pin	>0.2 N
Durability	400 insertion cycles

Electrical

Operational Current	5.6 A
Test Voltage	1550 V
Contact Resistance	15 mΩ
Clearance and Creepage	W: ≥ 3.0 mm, L: ≥ 1.6 mm
Insulation Resistance	$>10^6$ MΩ

Processing

Soldering Temperature	up to 260°C

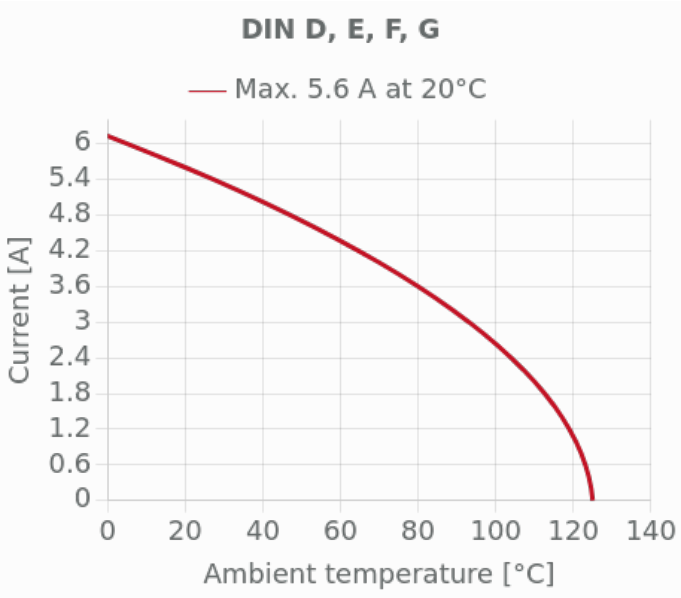
Approval / Compliance

UL file	E130314
Environment	RoHS compliant

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Derating Diagram

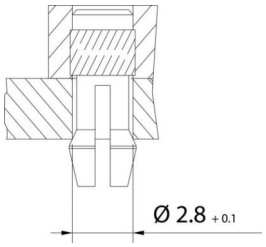


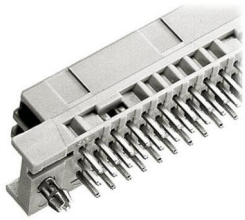
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Options

Board Lock

Suitable for connectors with type B, C, D, E, F low profile, G low profile, M female connectors and R male connectors





	Forces			Part Number	PCB Thickness
Type of Insertion	F_m	not soldered F_h	soldered F_h	110-40005C1	1.6 mm
Locked	< 20 N	> 10 N	> 25 N	110-40005C2	2.4 mm
Under Tension	< 20 N	> 5 N	> 25 N	110-40005C3	3.6 mm

Modifications

Available on request

- without mounting flange
- Special lengths for connections
- Grade I + III or custom
- Special configuration

Drawings

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

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