DIN 41612 High Temperature (HT) Series Headers & Receptacles

EXTENDED RANGE FOR HIGH TEMPERATURE APPLICATIONS

DIN 41612 High Temperature (HT) connectors meets the fire safety standards required in Industrial and Transportation market. The 2.54mm pitch HT connectors comply with the relevant standards like IEC 603-2, NFF 16-101/102 and EN45545-2.

- High temperature resin, suitable for THR process
- High reliability
- Flexibility in grounding and termination options
- Ideal for Industrial & Instrumentation segment: Railways & Medical
- DIN 41612, IEC 603-2, NFF 16-101/102, EN 45545-2
- Available in Style C & C/2- right angle header, vertical receptacle

NEW

TARGET MARKETS

FEATURES	BENEFITS
2.54mm and 5.08mm pitch	Adequate spacing for routing PCB trace
High temperature compatibility	Facilitates custom loading
Selective contact loading option	Reliability and no arcing damage on contact resting position
FMLB and LMEB contacts	Grounding option
Various termination types available	Flexible PCB mounting options
NFF 16-101/102 and EN45545-2 certified	Suitable for railway applications
Rear plug up option	Extended mating applications via shroud on rear side of PCB
Wide range of accessories available	Enhances connector suitability and flexibility

TECHNICAL INFORMATION

MATERIAL

- Insulator: High Temperature Thermoplastic Polyester, UL94V–0, Natural
- Contact: Copper Alloy (Male/Female Contact)
- Plating: AU/GXT® over Nickel (Contact area), Matte Tin over Nickel (Terminal area)

ELECTRICAL PERFORMANCE

- Current Rating at 20°C: 1.5A
- Current Rating: 2A max.
- Contact Resistance: ≤ 20mΩ
- Insulation Resistance: ≥ 10^6MΩ
- Test Voltage: 1000Vrms

MECHANICAL PERFORMANCE

- Insertion Force: ≤ 0.94N per contact
- Extraction force: ≥ 0.15N per contact

ENVIRONMENTAL

- Operating Temperature: –55°C to +125°C
- Performance levels as per IEC 603–2
- RoHS compliant according to the EU Directive 2011/65/EU

APPROVAL & CERTIFICATION

- UL
- NFF 16–101/102
- EN45545–2

SPECIFICATIONS

- DIN 41612
- IEC603–2

PACKAGING

- Tray

TARGET MARKETS/APPLICATIONS

Off Road Vehicles
Heavy Duty Loaders, Conveyers
Locomotives
Onboard Electronics
Signaling

Test and Lab Equipment
Process Control
Robotics
Lighting & Displays
Energy Distribution

Imaging
Monitoring
Analyzers

PART NUMBERS

Description	Configuration	Rows Loaded	Part Numbers
Style C Right Angle Header (STB)	3 row / 96 pos	a, b, c	86093967113x*5F1LF
	2 row / 64 pos	a & c	86094647113x*5F1LF
Style C Straight Receptacle (STB)	3 row / 96 pos	a, b, c	86093968114x*5F1LF
	2 row / 64 pos	a & c	86094648114x*5F1LF
Style C/2 Right Angle Header (STB)	3 row / 48 pos	a, b, c	86093487313x*5F1LF
	2 row / 32 pos	a & c	86094327313x*5F1LF
Style C/2 Straight Receptacle (STB)	3 row / 48 pos	a, b, c	86093488314x*5F1LF
	2 row / 32 pos	a & c	86094328314x*5F1LF

Notes
x in part number denotes B – High Temperature Housing (Natural) T – High Temperature Housing (Natural) with Harpoon
Asterisk (*) in part number denotes Performance class: 6 – Class 1 5 – Class 2 4 – Class 3
Custom loading and other options available on request.

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For more information,
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