

DRC20-50P01 ✓ ACTIVE

DEUTSCH | DEUTSCH DRC

TE Internal #: DRC20-50P01

PCB Mount Header, Vertical, Wire-to-Board, 50 Position, .174 in [4.42 mm] Centerline, Fully Shrouded, Gold (Au), Through Hole - Solder, DEUTSCH DRC

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Connectors > PCB Connectors > PCB Headers & Receptacles > DEUTSCH DRC HEADERS



Connector System: **Wire-to-Board**

Number of Positions: **50**

Centerline (Pitch): **4.42 mm [.174 in]**

Sealable: **Yes**

PCB Mount Orientation: **Vertical**

[All DEUTSCH DRC HEADERS \(41\)](#)

Features

Product Type Features

Hybrid Header	No
Connector & Housing Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
Header Type	Fully Shrouded
Connector System	Wire-to-Board
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Sections	2
Number of Signal Positions	50
Number of Positions	50
PCB Mount Orientation	Vertical
Number of Rows	5

Electrical Characteristics

Voltage Rating (Max)	250 VAC
Nominal Voltage Architecture	12 V, 24 V
Operating Voltage	250 VAC



Body Features

Primary Product Color	Black
Connector Code	01

Contact Features

Contact Size	Size 20
Contact Type	Pin
Mating Pin Diameter	1.02 mm[.04 in]
Contact Mating Area Plating Material	Gold (Au)
Contact Current Rating (Max)	7.5 A

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
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Mechanical Attachment

Mounting Holes	With
Mating Alignment Type	Keyed
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	With
Panel Mount Feature	With
PCB Mount Retention	With
PCB Mount Retention Type	Mounting Screw
Mating Retention Type	Locking Interface
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	4.42 mm[.174 in]
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Dimensions

Connector Length	50.47 mm[1.987 in]
Connector Width	78.59 mm[3.094 in]
PCB Thickness (Recommended)	.78 – 2.36 mm[.031 – .093 in]
Profile Height from PCB	28.32 mm[1.115 in]

Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]



Operation/Application

Shielded	No
Circuit Application	Power & Signal

Industry Standards

Degree of Protection	Not Tested
UL Flammability Rating	20mm Flame Test per Standard UL-94

Packaging Features

Packaging Type	Box
Packaging Quantity	60

Other

Interface Number	DRC20-50PXX
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUL 2021 (219) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



TE Part # CAT-D799-CH8172
DEUTSCH DRC HOUSINGS

Also in the Series | DEUTSCH DRC



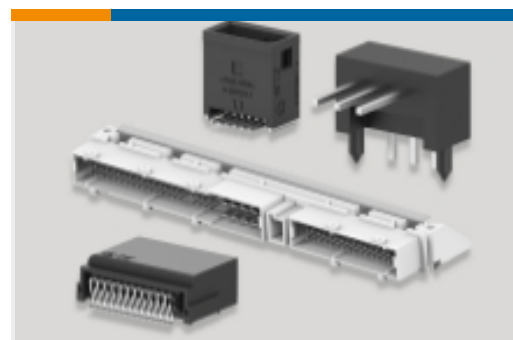
Automotive Connector Caps & Covers (9)



Automotive Housings(112)



Insertion & Extraction Tools(7)



PCB Headers & Receptacles(41)

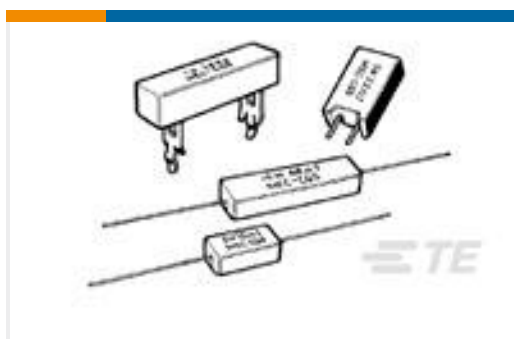
Customers Also Bought



TE Part #DT06-6S-E005
PLG, 6P, BLK, N, CAP



TE Part #640453-7
Polyester Right Angle PCB Header:
2.54mm, Unshrouded, MTA 100



TE Part #1-1623795-2
SQP10 47R 5% WIRE



TE Part #3-1761603-2
IDC LOW PRO HDR 36P VERT BLUE



TE Part #DRC20-50P02
DEUTSCH DRC HEADERS



TE Part #6473418-2
SUPER SEAL 26POS CAP ASSY V AU



TE Part #5-147105-5
10 MODIV VRT DR SFMNT 30AU

Documents

Product Drawings

HDR, 50P, BLK, ST, AU/NI/CU, 01

English

CAD Files



3D PDF

3D

Customer View Model

[ENG_CVM_CVM_DRC20-50P01_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_DRC20-50P01_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_DRC20-50P01_C.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[ICT Terminals and Connectors Catalogue](#)

English

Product Specifications

[Product Specification](#)

English