

5747302-1 ✓ ACTIVE

AMPLIMITE | AMPLIMITE HD-20

TE Internal #: 5747302-1

PCB D-Sub Connectors, Receptacle, Board-to-Board, 50 Position,
2.77 mm [.109 in] Centerline, 3 Row, 5 Connector Shell Size, Square,
AMPLIMITE HD-20

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Connectors > D-Shaped Connectors > D-Sub Connectors > PCB D-Sub Connectors > D-Sub Receptacle Assembly: Vertical, Shell Size 5, 2.77mm



Connector & Housing Type: **Receptacle**

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

Number of Positions: **50**

Centerline (Pitch): **2.77 mm [.109 in]**

Number of Rows: **3**

[All D-Sub Receptacle Assembly: Vertical, Shell Size 5, 2.77mm \(10\)](#)

Features

Product Type Features

Shell Material Configuration	Front Metal Shell
Connector & Housing Type	Receptacle
Connector System	Board-to-Board
Connector Shell Size	5
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	50
Number of Rows	3
PCB Mount Orientation	Vertical

Body Features

Insert Material	Thermoplastic
Shell Plating Material	Tin
Primary Product Color	Black
Connector Profile	High

Contact Features

Contact Mating Area Plating Material	30 µin Gold
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Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Shape & Form	Square
Contact Current Rating (Max)	6 A

Termination Features

Square Termination Post & Tail Dimension	.63 mm[.025 in]
Termination Post & Tail Length	3.18 mm[.125 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mounting Hole Diameter	3.05 mm[.12 in]
PCB Mount Retention	With
PCB Mount Retention Type	Mounting Hole
Mating Retention	With
Mating Retention Type	Clinch Nut, 4-40 UNC
Connector Mounting Type	Board Mount

Housing Features

Shell Material	Carbon Steel
Housing Material	Nylon GF
Centerline (Pitch)	2.77 mm[.109 in]

Dimensions

PCB Thickness (Recommended)	1.57 – 2.36 mm[.062 – .093 in]
Row-to-Row Spacing	2.84 mm[.112 in]

Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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Operation/Application

Circuit Application	Signal
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Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	7
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Packaging Method

Tube

Other

D-Shaped Connectors Comment

All receptacles are preloaded with size 20
DF posted socket contacts**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 2023
(235)
Candidate List Declared Against: JUNE
2023 (235)
Does not contain REACH SVHC

Halogen Content

Not Low Halogen - contains Br or Cl > 900
ppm.

Solder Process Capability

Wave solder capable to 265°C

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**Also in the Series | AMPLIMITE HD-20**

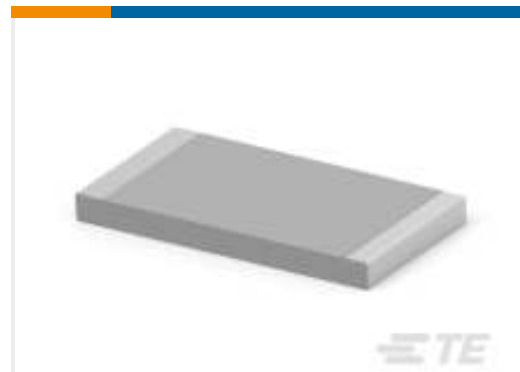


PCB D-Sub Connectors(353)

Customers Also Bought



TE Part #1-5745967-6
D-Sub Receptacle Assembly: Vertical,
Shell Size 3, 2.77mm



TE Part #2-2176331-5
CRGP 2512 1K0 1%



TE Part #7-1618387-1
LEV200A5ANA=RELAY, SPST-NO

Documents

Product Drawings

50 RCPT SP/MS CNUT

English

CAD Files

3D PDF

English

Customer View Model

[ENG_CVM_5747302-1_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_5747302-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_5747302-1_B.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

AMPLIMITE Subminiature D Connectors - Straight Posted Connectors

English

Product Specifications

Application Specification

English



Product Environmental Compliance

TE Material Declaration

English

Agency Approvals

UL Report

English