

TE Internal #: 745413-1
AMPLIMITE HD-20, PCB D-Sub Connectors, Plug, Board-to-Board,
37 Position, 2.74mm [.108in] Centerline, 2 Row, Row-to-Row
Spacing 2.84 mm [.112 in]

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Connectors > D-Shaped Connectors > D-Sub Connectors > PCB D-Sub Connectors



Connector & Housing Type: **Plug**
Connector System: **Board-to-Board**
Number of Positions: **37**
Centerline (Pitch): **2.74 mm [.108 in]**
Number of Rows: **2**

Features

Product Type Features

Grounding Indents	With
Grounded	Yes
Grounding Straps	Without
Shell Type	Full Metal Shell
Connector & Housing Type	Plug
Connector System	Board-to-Board
D-Sub Shell Size	4
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Product Type	Connector

Configuration Features

Number of Positions	37
Number of Rows	2
PCB Mount Orientation	Vertical
Preloaded	Yes

Body Features

Plastic	No
Insert Material	Thermoplastic



Connector Profile	High
Shell Plating Material	Tin
Shell Material	Steel
Post Size	.64 mm[.025 in]

Contact Features

Contact Mating Area Underplating Material	Palladium Nickel
Contact Mating Area Plating Material	Gold, Gold Flash
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Base Material	Brass
Contact Shape & Form	Square
Contact Current Rating (Max)	6 A
	30 µin

Termination Features

Grounding Clips	Without
Termination Method to Printed Circuit Board	Through Hole - Solder
Termination Post Length	3.18 mm[.125 in]

Mechanical Attachment

Panel Mount Feature	Without
PCB Mount Retention	With
PCB Mount Retention Type	Mounting Hole
Mating Retention	Without
Connector Mounting Type	Board Mount
Mounting Hole Diameter	3.05 mm[.12 in]

Housing Features

Centerline (Pitch)	2.74 mm[.108 in]
Housing Material	Thermoplastic
Housing Color	Black

Dimensions

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

Usage Conditions

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

Circuit Application	Signal
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Industry Standards

Insert Flammability Rating	UL 94V-0
Approved Standards	UL E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Tube
Packaging Quantity	7

Other

Comment	Plugs are preloaded with size 20 DF posted pin contacts
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Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Not Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2020 (205) Candidate List Declared Against: JUL 2019 (201) Pb (13% in Component Part)
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2020 (205) Candidate List Declared Against: JUL 2019 (201)
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not lead free process capable

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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

TE Model / Part # 1658612-1
37 POS HDF RCPT, MS, LEAD FREE

TE Model / Part # 1-745497-5
37 HDE MS RCPT,22-26,LEAD FREE

TE Model / Part # 1658610-1
37 POS HDF RCPT, MS, LEAD FREE

TE Model / Part # 1-745497-6
RCPT ASSY,37P,HDE,MS

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

PCB D-Sub Connectors(354)

Customers Also Bought

TE Model / Part #745187-1
25 RCPT SP/MS STD

TE Model / Part #5-435626-5
LOW PROFILE DIP SW 8POSN AU

TE Model / Part #583760-1
CARD GUIDE, AMP LEAF

TE Model / Part #1-104071-1
12 SYSTEM 50 HDR SRST SHRD



TE Model / Part #4-794628-2
12P MICRO MNL ASSY,R/A,SMT LF



TE Model / Part #1-103635-4
15 MTE HDR SRRA LATCH .100CL



TE Model / Part #1-104809-1
12 MTE HDR SRST LATCH W/HLDWN



TE Model / Part #146135-4
10 MODII HDR DRST SFMNT B/A



TE Model / Part #2-87233-6
26 MODII HDR SRRA UNSHRD .100



TE Model / Part #1624001-2
SC30-10-2537-10 100UH REELED

Documents

Product Drawings

37 PLUG SP/MS STD

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_745413-1_K_c-745413-1-k.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_745413-1_K_c-745413-1-k.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_745413-1_K_c-745413-1-k.3d_stp.zip

English

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Product Specifications

Application Specification

English