2204442-1 ✔ ACTIVE

MULTI-BEAM | MULTI-BEAM HD

TE Internal #: 2204442-1

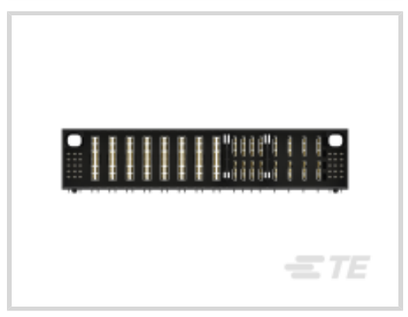
PCB Mount Plug, Right Angle, Board-to-Board, 54 Position, 2 mm / 3 mm / 6 mm [.079 in / .118 in / .196 in] Centerline, Fully Shrouded, MULTI-BEAM HD

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Connectors > PCB Connectors > PCB Headers & Receptacles







PCB Connector Type: **PCB Mount Plug**

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

Number of Positions: **54**

Number of Rows: **5**

Centerline (Pitch): **2 mm, 3 mm, 5 mm, 6 mm [.079 in, .118 in, .196 in, .236 in]**

Features

Product Type Features

Mixed & Hybrid Header	Yes
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Plug
Connector System	Board-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Columns	22
Number of Loaded Positions	54
Number of Positions	54
Number of Rows	5
PCB Mount Orientation	Right Angle

Number of Power Positions	24
Number of Signal Positions	30

Electrical Characteristics

Operating Voltage	60 VDC, 200 VDC, 300 VDC

Body Features

Primary Product Color	Black

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 µin]
Contact Layout	Matrix
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Blade, Pin
Contact Current Rating (Max)	3.5 A, 23 A, 75 A
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.076 µm[3 µin]

Termination Features

Termination Post & Tail Length	3.2 mm[.126 in]
Termination Method to PCB	Through Hole - Press-Fit

Mechanical Attachment

PCB Mount Alignment Type	Hold-Down
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	Without

Housing Features

Centerline (Pitch)	2 mm, 3 mm, 5 mm, 6 mm[.079 in][.118 in][.196 in][.236 in]
Housing Material	High Temperature Thermoplastic Glass-Filled

Dimensions

Connector Width	31.7 mm[1.25 in]
Connector Height	18.9 mm[.74 in]
Connector Length	99 mm[3.9 in]
Row-to-Row Spacing	2 mm[.079 in]
PCB Thickness (Recommended)	1.5 mm[.059 in]

Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

Operation/Application

Circuit Application	Power & Signal

Industry Standards

UL Rating	Recognized
Glow Wire Rating	High Temperature Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	10
Packaging Method	Tray

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 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable 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

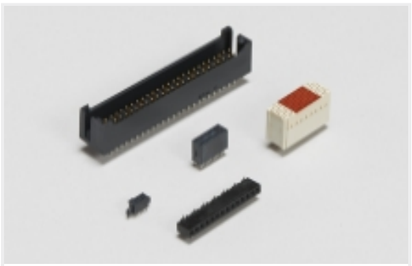
Compatible Parts



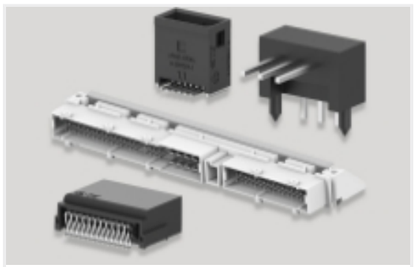
TE Part # 2204422-1
MULTI-BEAM HD VER.REC. 15S+8P+8LP+8LP+15S

TE Part # 2204402-1
MULTI-BEAM HD REC. 15S+8P+8LP+8LP+15S

Also in the Series | MULTI-BEAM HD



Board-to-Board Headers & Receptacles(46)



PCB Headers & Receptacles(46)



Rectangular Power Connectors(46)

Customers Also Bought



TE Part #CAT-D48-ST273
DEUTSCH Solid Contacts



TE Part #DT04-2P
REC, 2P, GRY, N



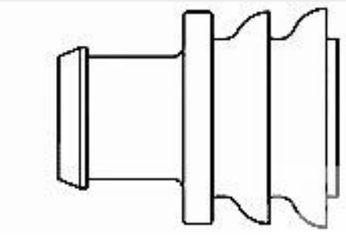
TE Part #CAT-D487-W416
Wedgelocks: DEUTSCH DT



TE Part #DT06-2S
PLG, 2P, GRY, N



TE Part #114017-ZZ
SEALING PLUG, SIZE 12/16, WHT



TE Part #281934-2
SINGLE WIRE SEAL



TE Part #CAT-AM71-CH8172
AMP SUPERSEAL 1.5MM, CONNECTOR HOUSING

Documents

Product Drawings

MULTI-BEAM HDR/A PLUG 15S+8P+8LP+8LP+15S

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2204442-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2204442-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2204442-1_A.3d_stp.zip

English

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Product Specifications

Application Specification

English

Agency Approvals

UL

English