

## PCB D-SUB CONNECTORS





### TE CONNECTIVITY (TE) 09 MSFL RCPT RA 318 (IN,FM) AMPLIMITE | Standard

745781-4 TE Internal Number: 745781-4

Not EU RoHS or ELV Compliant Find Compliant Alternatives Connector Style **Receptacle** Centerline (in) **.108** Number of Positions **9** Number of Rows **2** 

Shell Size 1

| Product Drawings          | RCPT ASSY, SIZE 1, 9 POSN, RTANG, AMPLIMITE TM<br>PDF<br>English     |
|---------------------------|--|
| CAD Files                 | 3D PDF<br>PDF<br>English   |
|                           | Customer View Model  |
|                           | 2D_DXF.ZIP<br>English  |
|                           | Customer View Model  |
|                           | 3D_IGS.ZIP<br>English  |
|                           | Customer View Model  |
|                           | 3D_STP.ZIP<br>English  |
| Product Specifications    |  |
| Product Specification     | AMPLIMITE HD-20 PCB Mounted Connector                                |
| Application Specification | English<br>AMPLIMITE Right-Angle Front Metal Shell Connectors<br>PDF |
| Qualification Test Report | English<br>Connector, AMPLIMITE HD-20, Printed Circuit Board Mounted |
|                           | PDF<br>English   |

#### Product Environmental Compliance

TE Material Declaration

MD\_745781-4\_05282015435\_dmtec PDF English

Please review product documents or **contact us** for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

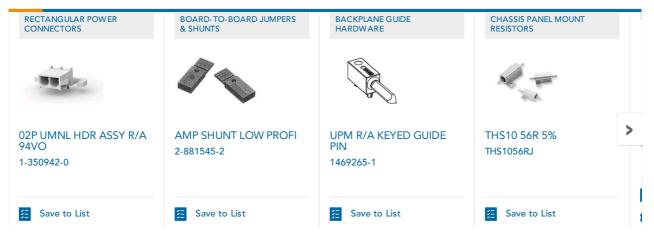
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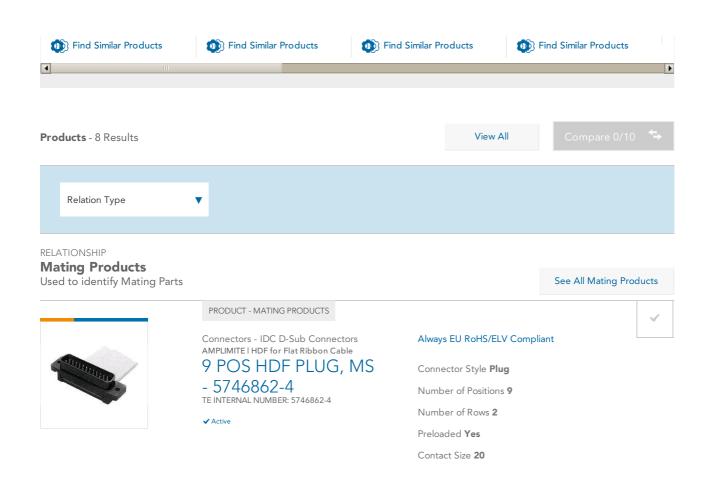
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|--|------------------------|---|-----------------------|
| ProfileStandardPCRMPCRM counting OrientationRight AngleConnorling StrapsWthShall TypePoint Micial ShallForopritRod orm [1318 in]Connorling IndentsWthouApples ToPrinted Circuit BoardApples ToPointed Circuit BoardShallPrinted Circuit BoardShallNumber of PositionsProduct TypeConnecterConfiguration FeaturesPlaticPlacidedNonColor CodeNonePreducterial MaterialTinShall MaterialStallPlatis MaterialStallPlatis MaterialStallPlatis MaterialStallShall MaterialStallShall MaterialStallShall MaterialStallShall MaterialStallShall MaterialStallShall MaterialStallContract ShapeStallShall Contact ShapeStallShall Contact Plating MaterialTinContact Mating Area Plating MaterialTinContact ShapeStallShall Contact Plating MaterialStallContact Mating Area Plating MaterialStall<   | Product Type Features  | Connector Style                             | Receptacle            |
| PCB Mounting OrientationFight AngleGrounding StrapsWithGrounding StrapsFoot March ShallGrounding IndentsGoom (.318 n.]Grounding IndentsWithoutApple OProduct TypeCarefiguration FronturesNumber of FootionsCarefiguration FronturesNumber of FootionsCarefiguration FronturesProduct TypeCarefiguration FronturesNumber of FootionsCarefiguration FronturesPlasticCarefiguration FronturesNumber of FootionsCarefiguration FronturesPlasticCarefiguration FronturesNumber of FootionsCarefiguration FronturesPlasticCarefiguration FronturesNumber of FootionsCarefiguration FronturesPlasticCarefiguration FronturesNumber of FootionsCarefiguration FronturesNumber of FootionsCarefiguration FronturesNumber of FootionsCarefiguration FronturesNoneCarefiguration FootionsStealCarefiguration Footio   |                        | Shell Size                                  | 1                     |
| Grounding StrappWithGrounding StrappFront Medi ShellFordprintGoording IndentsApplies ToWitkoutApplies ToOmeetorCondect StrappProduct TypeConding Group of Social Strapp9Configuration FeaturesNumber of Social SocialBody FeaturesPariseParise of Goord2Code CadeNoneCade CadeNoneFeaturesParise MaterialFeaturesPariseParise MaterialTaFeaturesSocial StrappCartaet FeaturesSocial StrappCartaet StrappSocial StrappCartaet StrappSocial StrappCartaet FeaturesContext StrappCartaet MaterialTaCartaet MaterialTaCartaet StrappSocial StrappCartaet MaterialSocial StrappCartaet MaterialTaCartaet StrappSocial StrappCartaet MaterialSocial StrappCartaet MaterialSocial StrappCartaet MaterialSocial StrappCartaet MaterialSocial StrappCartaet Material Cartaet Straing MaterialSocial StrappCartaet Material Ca   |                        | Profile                                     | Standard              |
| Food Heat Shell TypeFrom Metal ShellFood rint60 smm [ 318 in ]Food rint60 smm [ 318 in ]Apples ToMithoutApples ToFood Circuit BoordPaduel TypeConnectorConfiguration FeaturesNumber of FootionsPaleoded9Sody FeaturesPalesicPaleodedNoPaleodedNoSody FeaturesPalesicPaleodedNoPaleoded <td></td> <td>PCB Mounting Orientation</td> <td>Right Angle</td>  |                        | PCB Mounting Orientation                    | Right Angle           |
| IncompleteFocuprieriSoft ami [ 31 Si n ]Grounding IndentsWithoutApplies ToNoSealedNoProduct TypeConnectorConfiguration FeaturesNumber of Pastions9Number of Pastions2PreloadedYesSold PreturesPlasticNoneEveloadedNone1Shell Plating MaterialTinShell Plating MaterialStelInsert MaterialStelShell Plating MaterialStelShell Plating MaterialStelShell Plating MaterialStelShell Plating MaterialStelShell Plating MaterialStelShell MaterialStelContext ShapeStelSolder Tail Context Plating MaterialTinContext MaterialContext MaterialContext Mating Area Plating MaterialTinContext Mating Area Plating MaterialTinContext Mating Area Plating MaterialGotFermination FeaturesContext Mating Area Plating MaterialFermination FeaturesTermination Plating MaterialFermination FeaturesContext Mating Area Plating MaterialFermination FeaturesContext Mating Area Plating MaterialFermination FeaturesStelman Plating MaterialFermination FeaturesContext Mating Area Plating MaterialFermination FeaturesContext Mating Area Plating MaterialFermination FeaturesContext Mating Area Plating MaterialFermination FeaturesStel Ste   |                        | Grounding Straps                            | With                  |
| Grounding IndentsWithoutApplies ToPrioted Circuit BoardScaledNoProduct TypeConnectorConfiguration FeaturesNumber of Postions9Number of Postions2PrelaededYesSody FeaturesPlaticNonePrelaededSoleSoleSole Plating MaterialTinInsert MaterialStell Plating MaterialStellSole Table MaterialStell Plating MaterialStellSole Table StellPost SizeSoleContex ShapeStell Table Contex Plating MaterialTinContex ShapeContex ShapeStellContex ShapeContex ShapeSoleContex ShapeContex ShapeSoleContex Mating Area Plating MaterialTinContex Mating Area Plating MaterialTinContex ShapeContex ShapeSoleContex ShapeContex ShapeSoleContex ShapeContex Mating Area Plating MaterialTinContex Mating Area Plating MaterialTinContex Mating Area Plating MaterialGolFermination FeaturesContex Mating Area Plating MaterialGolFermination FeaturesContex Mating Area Plating MaterialSilem [1:25in]Kehnnel KatschneetPCB Mouting StyleWithout  |                        | Shell Type                                  | Front Metal Shell     |
| Applies To Printed Circuit Board   Sealed No   Configuration Features Number of Positions 9   Auber of Rowa 2   Preloaded Yer   Body Features Plastic No   Color Code None   Eyeler Plating Material To   Insert Material To   Insert Material Steel   Shell Plating Material Steel   Eyeler Plating Material To   Insert Material Steel   Eyeler Material Steel   Eyeler Tail Contact Material Steel   Eyeler Tail Contact Shape Resund   Solder Tail Contact Plasting Material To   Contact Shape Scotaret Shape   Solder Tail Contact Plasting Material To   Contact Mating Area Plating Material Solder Tail Contact Material   Contact Mating Area Plating Material Solder   Contact Mating Area Plating Thickness (sin) Solder   Contact Mating Area Plating Thicknes (sin) Solder   Contact Mating Area Plating Thicknes (sin) Solder   Contact M   |                        | Footprint                                   | 8.08 mm [ .318 in ]   |
| SealedNoProduct TypeConnectorConfiguration FeaturesNumber of Positions9Number of Rows2PreloadedYesBady FeaturesPlasticNonColor CodoNone1Eyelet Plating MaterialTnShell Plating MaterialTnShell Plating MaterialSteelEyelet Material </td <td></td> <td>Grounding Indents</td> <td>Without</td>   |                        | Grounding Indents                           | Without               |
| Product TypeConnectorConfiguration FeaturesNumber of Positions9Number of Rows2PacloadedYesSody FeaturesPlaticNoColor CodeNoneEyelet Plating MaterialTnShell Plating MaterialSteelInsert MaterialSteelEyelet Material<  |                        | Applies To                                  | Printed Circuit Board |
| Configuration Features Number of Positions 2<br>Number of Rows 2<br>Peloaded 7<br>Sody Features Plastic No<br>Color Code None<br>Color Code None<br>Color Code None<br>Eyelet Plating Material Tin<br>Tin<br>Shell Plating Material Zinc<br>Insert Material Steel<br>Eyelet Material Steel<br>Eyelet Material Steel<br>Eyelet Material Steel<br>Eyelet Material Steel<br>Eyelet Material Steel<br>Steel<br>Steel Steer<br>Steel Steer<br>Contact Features Contact Shape Steer<br>Contact Easter Material Tin<br>Contact Shape Steer<br>Solder Tail Contact Plating Material Tin<br>Contact Shape Steer<br>Contact Mating Area Plating Material Steel<br>Contact Mati |                        | Sealed                                      | Νο                    |
| Number of Rows2PreloadedYesBody FesturesPlasticNoColor CodeNoneEyelet Plating MaterialTinShell Plating MaterialTinInsert MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialBressEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialTinContact ShapeRoundSolder Tail Contact Plating MaterialTinContact Mating Area Plating Thickness (µn)30Contact Mating Area Plating Thickness (µn)SolderFermination FeaturesTermination Post Length<br>Grounding ClipsStemme [.125 in]Wethanical AttachmentPCB Mounting StyleThrough Hole   |                        | Product Type                                | Connector             |
| PreloadedPreloadedYesBody FeaturesPlasticNoClor CodeNoneEyeler Plating MaterialTnInsert MaterialSteelInsert MaterialSteelEyelet MaterialSteelEyelet MaterialBrassEyelet MaterialFarsaEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialBrassEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialSteelEyelet MaterialContact ShapeContact Base MaterialTnContact Mating Area Plating Thickness (µn)SolderContact Mating Area Plating Thickness (µn)SolderEremination FeaturesTermination Post Length<br>Grounding ClipsStemp 1.25 in ]WithoutSteelSteelEyelet MaterialSteelSteelEyelet MaterialS  | Configuration Features | Number of Positions                         | 9                     |
| Body FeaturesPlasticNoColor CodeNoneEyelet Plating MaterialTinByelet Plating MaterialTinInsert MaterialZincInsert MaterialSteelEyelet MaterialBrassEyelet MaterialBrassPost Size.oform[.020 in]Contact FeaturesContact ShapeContact Mating Area Plating MaterialTinContact Mating Area Plating MaterialTinContact Mating Area Plating MaterialGoldContact Mating Area Plating MaterialGoldContact Mating Area Plating MaterialGoldContact Mating Area Plating MaterialStellContact Mating Area Plating MaterialGoldContact Mating Area Plating MaterialGoldContact Mating Area Plating MaterialStellContact Mating Area Plating MaterialStellContact Mating Area Plating MaterialStellContact Mating Area Plating MaterialGoldContact Mating Area Plating MaterialStellContact Mating Area Plating StellStellContact Mating Area Plating StellWithoutContact Mating ClipsWithoutWethanical AttachmentPCB Mounting StyleThrough Hole  |                        | Number of Rows                              | 2                     |
| Color CodeNoneEyelet Plating MaterialTnShell Plating MaterialTnInsert MaterialZincShell MaterialSteelEyelet MaterialBrassEyelet MaterialGoract ShapePost SizeContact Plating MaterialSolder Tail Contact Plating MaterialTinContact MaterialContact MaterialContact MaterialTinContact MaterialPosspher BronzeContact Mating Area Plating MaterialGoldContact Mating Area Plating MaterialGoldContact Mating Area Plating MaterialGoldTermination FeaturesErmination Post Length<br>Grounding ClipsSilem [.125 in]<br>WithoutWethanical AttachmentPCB Mounting StyleTincugh Hole   |                        | Preloaded                                   | Yes                   |
| Eyelet Plating MaterialTinShell Plating MaterialTinInsert MaterialZincInsert MaterialSteelShell MaterialBrassEyelet MaterialBrassEyelet MaterialContact ShapeContact ShapeRoundSolder Tail Contact Plating MaterialTinContact Mating Area Plating Thickness (µin)30Contact Mating Area Plating MaterialGoldTermination FeaturesTermination Post Length<br>Grounding ClipsS18 mm [.125 in]<br>WithoutWethanical AttachmentPCB Mounting StyleThrough Hele  | Body Features          | Plastic                                     | No                    |
| Shell Plating MaterialTinInsert MaterialZincShell MaterialSteelEylet MaterialBrassPost Sizeoform [.026 in]Contact FeaturesContact ShapeSolder Tail Contact Plating MaterialTinContact Mating Area Plating Thickness (µin)DotContact Mating Area Plating Thickness (µin)SolderTermination FeaturesTermination Post LengthSlamm [.125 in]Wethanical AttachmentPCB Mounting StyleTincught Hole  |                        | Color Code                                  | None                  |
| Insert Material insert Materia   |                        | Eyelet Plating Material                     | Tin                   |
| Shell MaterialSteelEyelet MaterialBrassPost SizeContact FeaturesContact ShapeRoundSolder Tail Contact Plating MaterialTinContact Mating Area Plating Thickness (µi)30Contact Mating Area Plating MaterialGoldTermination FeaturesTermination Post Length<br>Grounding Clips318 mm [.125 in]<br>WithoutWechanical AttachmentPCB Mounting StyleThrough Hole  |                        | Shell Plating Material                      | Tin                   |
| Eyelet Material   Brass     Post Size   .66 mm [.026 in]     Contact Features   Contact Shape   Round     Solder Tail Contact Plating Material   Tin     Contact Base Material   Phosphor Bronze     Contact Mating Area Plating Thickness (µin)   30     Contact Mating Area Plating Material   Gold     Termination Features   Termination Post Length   3.18 mm [.125 in]     Wechanical Attachment   PCB Mounting Style   Through Hole   |                        | Insert Material                             | Zinc                  |
| Post Size  |                        | Shell Material                              | Steel                 |
| Contact Features   Contact Shape   Round     Solder Tail Contact Plating Material   Tin     Contact Base Material   Phosphor Bronze     Contact Mating Area Plating Thickness (µin)   30     Contact Mating Area Plating Material   Gold     Fermination Features   Termination Post Length   3.18 mm [.125 in]     Grounding Clips   Without   PCB Mounting Style   Through Hole  |                        | Eyelet Material                             | Brass                 |
| Solder Tail Contact Plating Material   Tin     Contact Base Material   Phosphor Bronze     Contact Mating Area Plating Thickness (µin)   30     Contact Mating Area Plating Material   Gold     Termination Features   Termination Post Length   3.18 mm [.125 in]     Grounding Clips   Without     Mechanical Attachment   PCB Mounting Style   Through Hole   |                        | Post Size                                   | .66 mm [ .026 in ]    |
| Contact Base MaterialPhosphor BronzeContact Mating Area Plating Thickness (µin)30Contact Mating Area Plating MaterialGoldTermination FeaturesTermination Post Length<br>Grounding Clips3.18 mm [.125 in]<br>WithoutMechanical AttachmentPCB Mounting StyleThrough Hole   | Contact Features       | Contact Shape                               | Round                 |
| Contact Mating Area Plating Thickness (µin)30Contact Mating Area Plating MaterialGoldFermination FeaturesTermination Post Length<br>Grounding Clips3.18 mm [.125 in]<br>WithoutMechanical AttachmentPCB Mounting StyleThrough Hole   |                        | Solder Tail Contact Plating Material        | Tin                   |
| Contact Mating Area Plating MaterialGoldTermination FeaturesTermination Post Length3.18 mm[.125 in]Grounding ClipsWithoutMechanical AttachmentPCB Mounting StyleThrough Hole   |                        | Contact Base Material                       | Phosphor Bronze       |
| Termination Features   Termination Post Length   3.18 mm [.125 in]     Grounding Clips   Without     Mechanical Attachment   PCB Mounting Style   Through Hole   |                        | Contact Mating Area Plating Thickness (µin) | 30                    |
| Grounding Clips Without   Mechanical Attachment PCB Mounting Style Through Hole  |                        | Contact Mating Area Plating Material        | Gold                  |
| Mechanical Attachment PCB Mounting Style Through Hole  | Termination Features   | Termination Post Length                     | 3.18 mm [ .125 in ]   |
|  |                        | Grounding Clips                             | Without               |
| PCB Mount Retention With   | Mechanical Attachment  | PCB Mounting Style                          | Through Hole          |
|  |                        | PCB Mount Retention                         | With                  |

|                    | PCB Mount Retention Type         | Mounting Holes  |
|--------------------|----------------------------------|---|
|                    | Mating Connector Lock            | With  |
|                    | Mating Connector Lock Type       | Threaded Insert, 4-40 UNC   |
|                    | Panel Mount Retention            | Without   |
|                    | Mating Retention                 | With  |
|                    | Mounting Hole Diameter           | 3.18 mm [ .125 in ]   |
|                    | Threaded Insert Material         | Zinc  |
|                    | Threaded Insert Plating Material | Clear Chromate  |
| Housing Features   | Centerline (in)                  | .108  |
| Housing realures   |                                  |   |
|                    | Housing Color                    | Black   |
|                    | Housing Material                 | Thermoplastic   |
| Dimensions         | PCB Thickness (Recommended)      | 2.36 mm [ .093 in ]   |
| Industry Standards | UL Flammability Rating           | UL 94V-0  |
|                    | Approved Standards               | UL E28476   |
| Packaging Features | Packaging Method                 | Tray  |
|                    | Packaging Quantity               | 130   |
| Other              | Comment                          | All receptacles are preloaded with size 20<br>DF posted socket contacts |
| Product Compliance | Statement of Compliance<br>PDF   |   |

VIEW ALL PRODUCT COMPLIANCE

## CUSTOMERS ALSO BOUGHT





RELATIONSHIP **Mating Products** Used to identify Mating Parts See All Mating Products PRODUCT - MATING PRODUCTS Connectors - IDC D-Sub Connectors Always EU RoHS/ELV Compliant AMPLIMITE | HDE (IDC) Insulation PLUG ASSY, 9P, HDE, MS Connector Style Plug - 1-745492-9 Number of Positions 9 TE INTERNAL NUMBER: 1-745492-9 Number of Rows 2 ✓ Active Preloaded Yes Contact Size 20



Contact Size **20** 

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