

280377-2

✓ ACTIVE

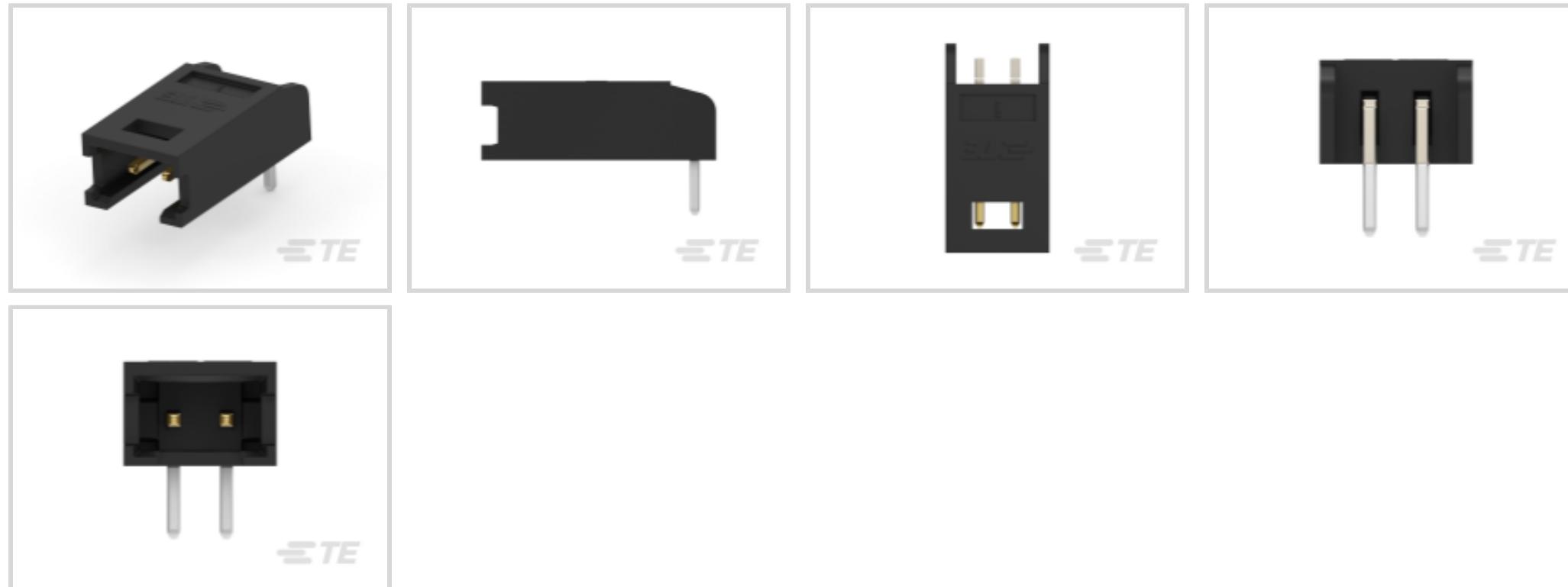
## AMPMODU | AMPMODU Headers

TE Internal #: 280377-2

PCB Mount Header, Right Angle, Board-to-Board, 2 Position, 2.54 mm [.1 in] Centerline, Partially Shrouded, AMPMODU Headers

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Connectors &gt; PCB Connectors &gt; PCB Headers &amp; Receptacles



PCB Connector Type: PCB Mount Header

Connector System: Board-to-Board

Number of Positions: 2

Number of Rows: 1

Centerline (Pitch): 2.54 mm [.1 in]

**Features****Product Type Features**

|                                   |                       |
|-----------------------------------|-----------------------|
| Connector Shape                   | Rectangular           |
| PCB Connector Type                | PCB Mount Header      |
| Connector System                  | Board-to-Board        |
| Header Type                       | Partially Shrouded    |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type            | Connector Assembly    |

**Configuration Features**

|                                  |              |
|----------------------------------|--------------|
| Connector Contact Load Condition | Fully Loaded |
| Number of Positions              | 2            |
| Number of Rows                   | 1            |
| PCB Mount Orientation            | Right Angle  |

**Electrical Characteristics**

|                   |        |
|-------------------|--------|
| Operating Voltage | 40 VDC |
|-------------------|--------|

Dielectric Withstanding Voltage (Max) 750 V

#### Body Features

|                       |          |
|-----------------------|----------|
| Connector Profile     | Standard |
| Primary Product Color | Black    |

#### Contact Features

|   |   |
|---|---|
| Contact Underplating Material                           | Nickel                                    |
| Contact Underplating Material Thickness                 | 1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]   |
| Mating Square Post Dimension                            | .63 mm[.025 in]                           |
| PCB Contact Termination Area Plating Material Thickness | 2.5 $\mu\text{m}$ [98.42 $\mu\text{in}$ ] |
| Contact Shape & Form                                    | Square                                    |
| Contact Layout  | Inline                                    |
| Contact Mating Area Length                              | 6.6 mm[.259 in]                           |
| Contact Base Material                                   | Brass                                     |
| PCB Contact Termination Area Plating Material           | Tin                                       |
| Contact Mating Area Plating Material Finish             | Bright                                    |
| Contact Mating Area Plating Material Thickness          | .381 $\mu\text{m}$ [15 $\mu\text{in}$ ]   |
| Contact Mating Area Plating Material                    | Gold Flash over Palladium Nickel          |
| Contact Type  | Pin                                       |
| Contact Current Rating (Max)                            | 3 A                                       |

#### Termination Features

|                                |                       |
|--------------------------------|-----------------------|
| Termination Post & Tail Length | 3.5 mm[.138 in]       |
| Termination Method to PCB      | Through Hole - Solder |

#### Mechanical Attachment

|                         |              |
|-------------------------|--------------|
| Panel Mount Feature     | Without      |
| Mating Retention        | With         |
| Mating Alignment Type   | Polarization |
| Connector Mounting Type | Board Mount  |
| Mating Alignment        | With         |
| PCB Mount Alignment     | Without      |
| PCB Mount Retention     | Without      |

#### Housing Features

|                    |                |
|--------------------|----------------|
| Centerline (Pitch) | 2.54 mm[.1 in] |
|--------------------|----------------|

## Housing Material

Flame Retardant Thermoplastic

## Dimensions

|                    |                   |
|--------------------|-------------------|
| Connector Width    | 14.9 mm [.587 in] |
| Connector Height   | 5 mm [.197 in]    |
| Connector Length   | 7.7 mm [.303 in]  |
| Row-to-Row Spacing | 2.54 mm [.1 in]   |

## Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Housing Temperature Rating  | Standard                   |
| Operating Temperature Range | -40 – 80 °C [-40 – 176 °F] |

## Industry Standards

|                        |          |
|------------------------|----------|
| Industry Standard      | IEC      |
| UL Flammability Rating | UL 94V-0 |

## Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 1500 |
| Packaging Method   | Box  |

## Product Compliance

For compliance documentation, visit the product page on TE.com &gt;

|   |   |
|---|---|
| EU RoHS Directive 2011/65/EU                  | Compliant   |
| EU ELV Directive 2000/53/EC                   | Compliant   |
| China RoHS 2 Directive MIIT Order No 32, 2016 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold   |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>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

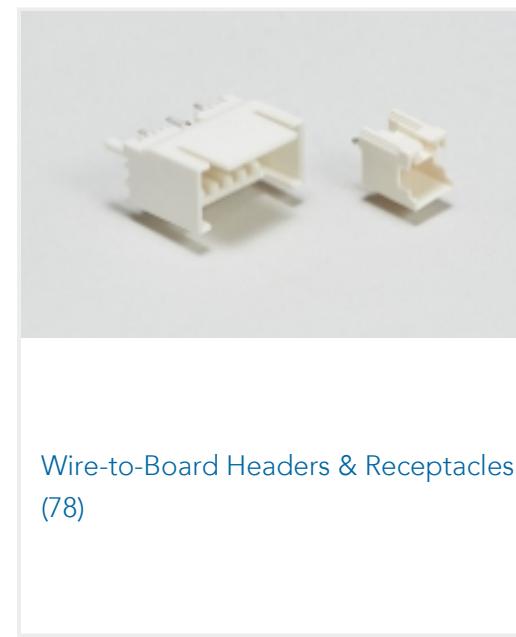
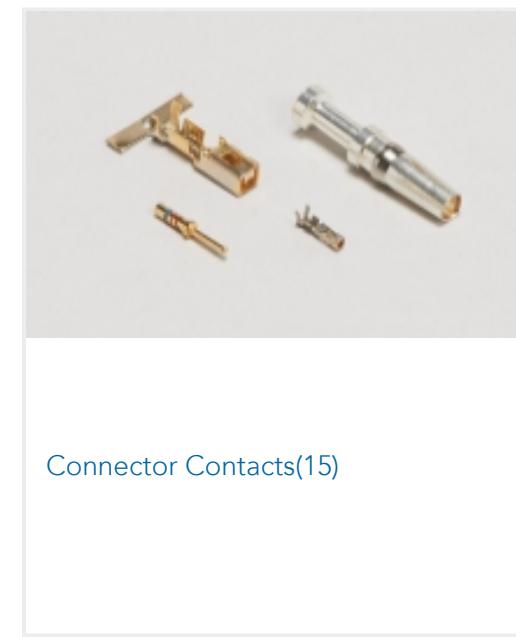
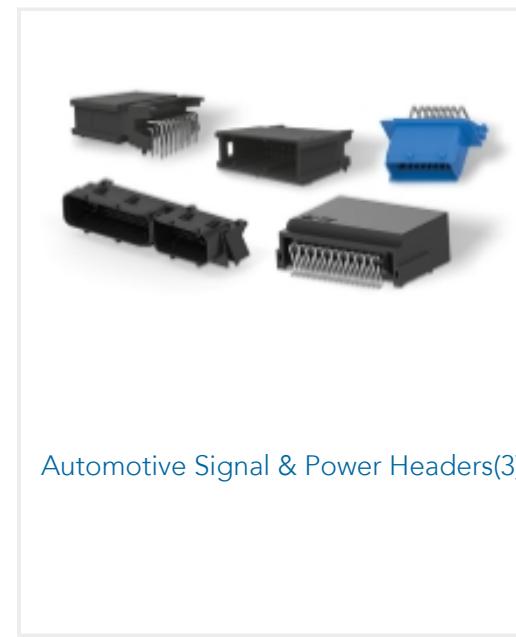
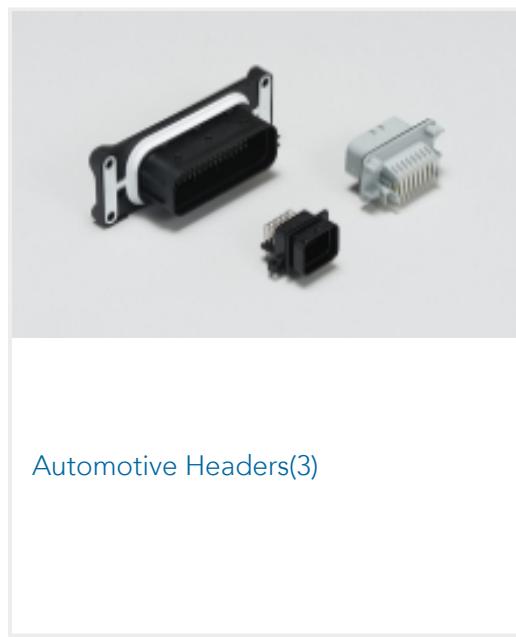
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

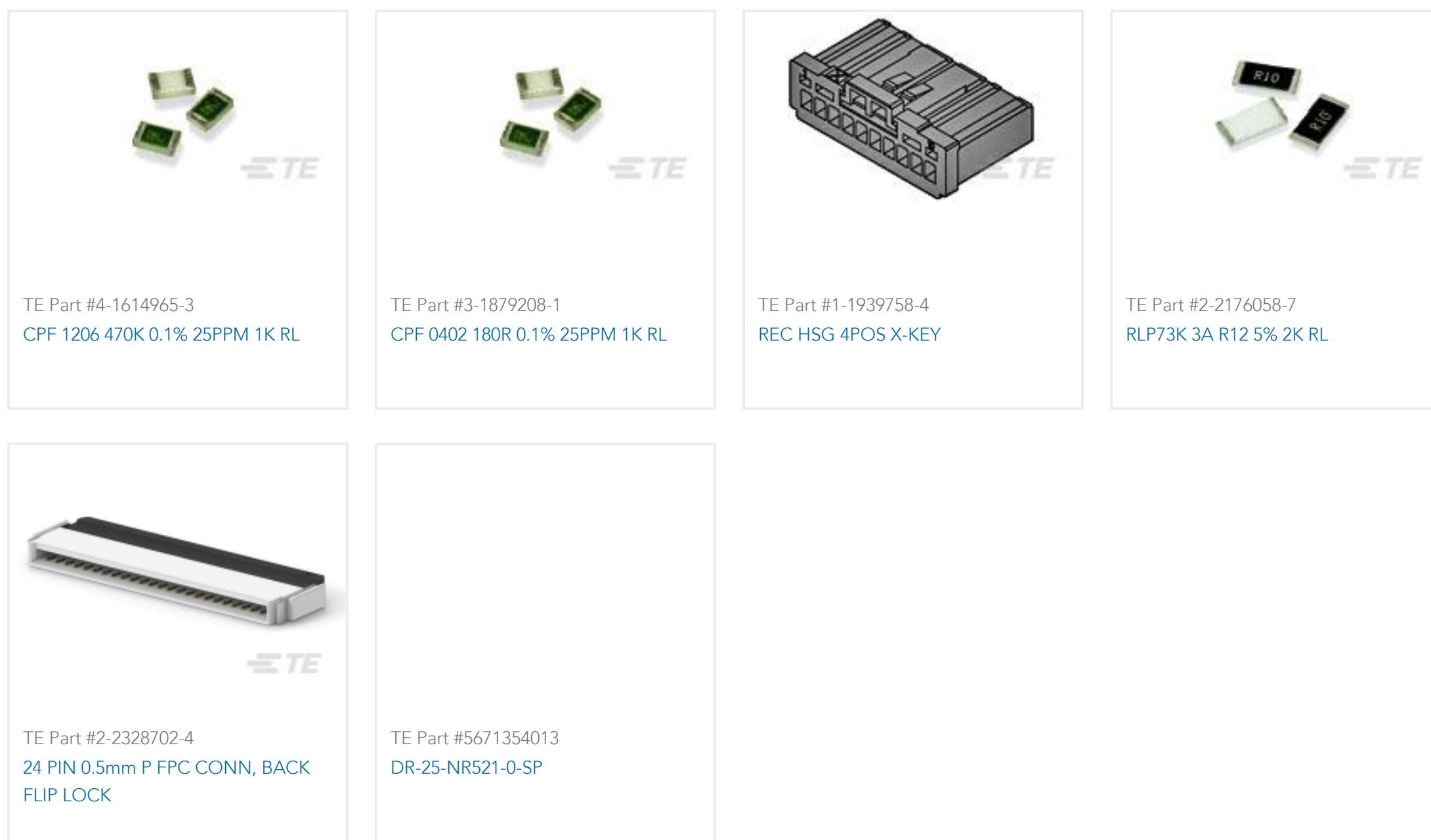


## Also in the Series | AMPMODU Headers



## Customers Also Bought





## Documents

### Product Drawings

[2P MODU II SHRD HDR,RT ANG, 0.38AU](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_280377-2\\_S\\_c-280377-2-s.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_280377-2\\_S\\_c-280377-2-s.3d\\_jgs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_280377-2\\_S\\_c-280377-2-s.3d\\_stp.zip](#)

English

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