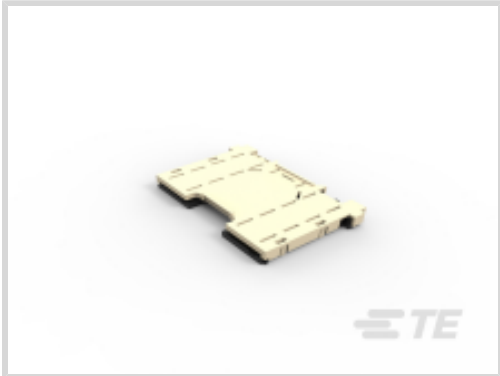




Connectors > Socket Connectors > IC Sockets > LGA Sockets > LGA 3647 Sockets



IC Socket Type: **LGA 3647**

Number of Positions: **1823**

Contact Mating Area Plating Material Thickness: **[ 30 µin ]**

Centerline (Pitch): **.86 mm, .99 mm [ .034 in, .039 in ]**

Termination Method to PCB: **Surface Mount - Solder Ball**

[All LGA 3647 Sockets \(0\)](#)

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector System                  | Board-to-Board        |

Configuration Features

|                     |                                   |
|---------------------|-----------------------------------|
| Number of Positions | 1823                              |
| Grid Spacing        | .9906 x .8585 mm[.039 x .0338 in] |

Body Features

|             |         |
|-------------|---------|
| Frame Style | C Shape |
|-------------|---------|

Contact Features

|                                      |              |
|--------------------------------------|--------------|
| Contact Mating Area Plating Material | Gold (Au)    |
| Contact Base Material                | Copper Alloy |
| IC Socket Type                       | LGA 3647     |
|                                      | 30 µin       |
| Contact Current Rating (Max)         | .5 A         |

Termination Features

|                           |                             |
|---------------------------|-----------------------------|
| Termination Method to PCB | Surface Mount - Solder Ball |
|---------------------------|-----------------------------|

Mechanical Attachment



|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

Housing Features

|                    |                                  |
|--------------------|----------------------------------|
| Housing Color      | Black                            |
| Housing Material   | High Temperature Thermoplastic   |
| Centerline (Pitch) | .86 mm, .99 mm[.034 in][.039 in] |

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

|                  |      |
|------------------|------|
| Tray Color       | Blue |
| 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: JAN 2025 (247)<br>Candidate List Declared Against: JUNE 2023 (235)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                            |
| Solder Process Capability                     | Reflow solder capable to 260°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



TE Part # 2821719-1  
IFP/LEC CBL ASSY 2 PORT TYPE A STR



TE Part # 2821719-2  
IFP/LEC CBL ASSY 2 PORT TYPE A STR



TE Part # 2821720-2  
IFP/LEC CBL ASSY 2 PORT TYPE A STR INV



TE Part # 2821719-4  
IFP/LEC CBL ASSY 2 PORT TYPE A STR



TE Part # 2821720-1  
IFP/LEC CBL ASSY 2 PORT TYPE A STR INV

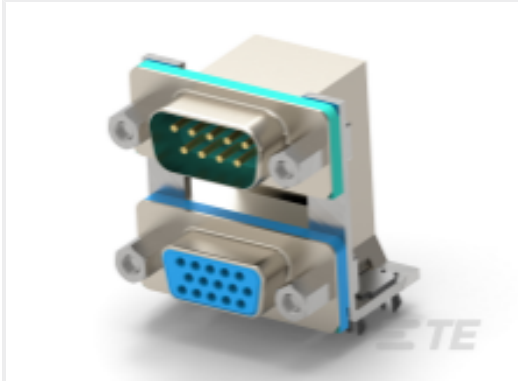


TE Part # 2821719-3  
IFP/LEC CBL ASSY 2 PORT TYPE A STR

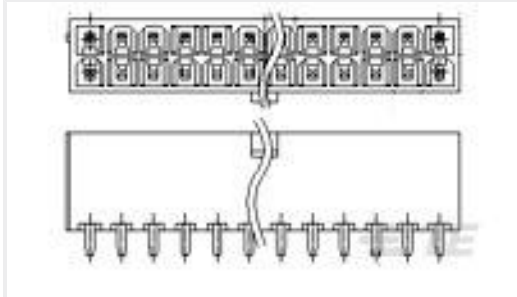
Customers Also Bought



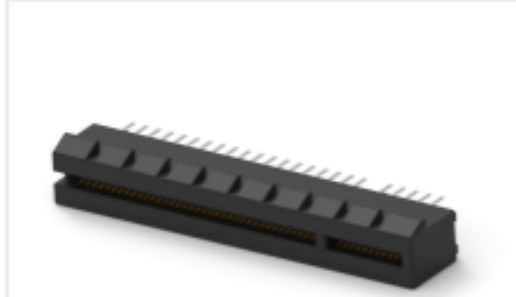
TE Part #2007417-6  
SFP+ assy 2x2 Gasket Inner Lp Sn



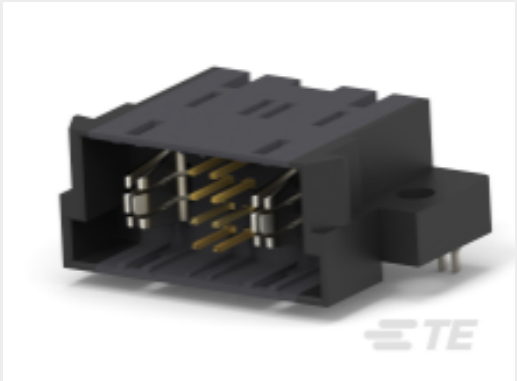
TE Part #2-1775210-1  
D-SUB 5.08mm,9 POS PLUG OVER 15 POS RCPT



TE Part #4-1775099-6  
ATX PWR CONN 18 POS



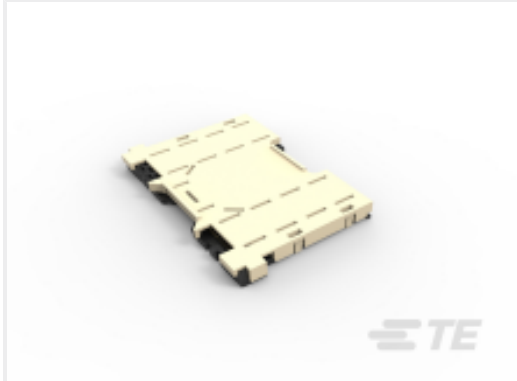
TE Part #2041554-1  
PCI-E, 98 P,2.3L, DIP, LOW END WALL



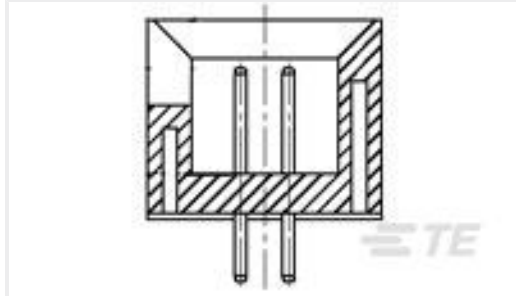
TE Part #2322144-2  
MBXL R/A HDR STR 1ACP+8S+1ACP, HF



TE Part #1-1734774-6  
PCI EXP 3.1L 164 POS BLK 15u"



TE Part #2-2129710-7  
LEFT SIDE LGA3647-1 SOCKET-P1 FOR ODM



TE Part #1-1759500-1  
BLIND MATE BOX HEADER 4P



Documents

Product Drawings

RIGHT SIDE LGA3647-1 SOCKET-P1 FOR ODM

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2-2129710-8\_C.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-2129710-8\_C.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-2129710-8\_C.3d\_stp.zip

English

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

Datasheets & Catalog Pages

LGA 3647 Socket Product Flyer

English

Product Specifications

Application Specification

English