



Connectors > Socket Connectors > IC Sockets > LGA Sockets



IC Socket Type: **LGA 3647**

Number of Positions: **1823**

Contact Mating Area Plating Material Thickness: **.76  $\mu\text{m}$  [ 30  $\mu\text{in}$  ]**

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

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

## 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
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### Contact Features

Contact Mating Area Plating Material	Gold (Au)
Contact Base Material	Copper Alloy
IC Socket Type	LGA 3647
Contact Mating Area Plating Material Thickness	.76 $\mu\text{m}$ [30 $\mu\text{in}$ ]
Contact Current Rating (Max)	.5 A

### Termination Features

Termination Method to PCB	Surface Mount - Solder Ball
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### Mechanical Attachment

Connector Mounting Type	Board Mount
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### 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
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### Industry Standards

UL Flammability Rating	UL 94V-0
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### Packaging Features

Tray Color	Blue
Packaging Method	Tray

### Product Compliance

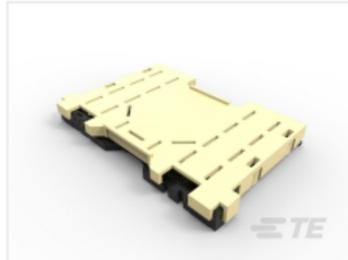
[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	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) Candidate List Declared Against: JUNE 2023 (235) 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	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 # 2-2129710-5  
LEFT SIDE LGA3647-0 SOCKET-P0  
FOR ODM



TE Part # 2305234-1  
SOCKET P HARDWARE DUST COVER



TE Part # 2299805-3  
NRW BACK PLATE ASSY, SOCKET P0,  
STUD7.74MM



TE Part # 2310924-3  
NRW FABRIC BOLSTER, P0, W/O  
COVER



TE Part # 2310927-1  
, NARROW FABRIC, SOCKET P



TE Part # 2299805-1  
NRW BACK PLATE ASSY, SOCKET P0,  
STUD6.8MM



TE Part # 2299806-1  
NRW NON-FABRIC , SOCKET P0



TE Part # 2821722-2  
IFP/LEC CBL ASSY 1 PORT TYPE B  
STR INV



TE Part # 2821722-3  
IFP/LEC CBL ASSY 1 PORT TYPE B  
STR INV



TE Part # 2821722-4  
IFP/LEC CBL ASSY 1 PORT TYPE B  
STR INV



TE Part # 2310924-1  
NRW FABRIC BOLSTER ASSY, W/  
COVER



TE Part # 2299804-1  
NRW NON-FABRIC BOLSTER, P0, W/  
COVER



TE Part # 2299804-3  
NRW NON-FABRIC BOLSTER, P0, W  
/O COVER

## Customers Also Bought



TE Part #1410278-2  
MULTIGIG RT PWR .8" VRT RCP 2P  
PBFR



TE Part #2327678-3  
RECEPTACLE ASSY, 84 P, VERT,  
SLIVER 2.0



TE Part #2327679-3  
RECEPTACLE ASSY, 56 POS, VERT,  
GEN Z



TE Part #1-2340321-2  
ASSY STRADDLE MOUNT 168P 076  
SLIVER 2.0



## Documents

### Product Drawings

[RIGHT SIDE LGA3647-0 SOCKET-P0 FOR ODM](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2129710-6\\_C.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2129710-6\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-2129710-6\\_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