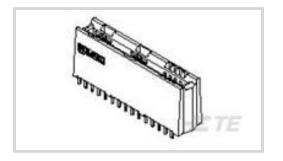
6651290-2 - ACTIVE

### **CROWN EDGE**

TE Internal #: 6651290-2 Board-to-Board Card Edge Power Connector, 12 Position, 2.5 mm [. 098 in] Centerline, Power & Signal, 4 Power Positions, 8 Signal Positions, CROWN EDGE

#### View on TE.com >





#### Connector System: Board-to-Board

Number of Positions: 12

Centerline (Pitch): 2.5 mm [.098 in]

Contact Current Rating (Max): 3 A, 35 A

Circuit Application: Power & Signal

## Features

### **Product Type Features**

Connector & Contact Terminates To

Connector Mates With

Connector & Housing Type

Printed Circuit Board

Bus Bar Tab, PCB Edge Card

Receptacle



## Connector System

#### Board-to-Board

## **Configuration Features**

PCB Mount Orientation	Vertical
Number of Positions	12
Number of Power Positions	4
Number of Signal Positions	8
Number of Dual Positions	2
Electrical Characteristics	
Operating Voltage	250 V
Body Features	
Primary Product Color	Black
Contact Features	
Contact Base Material	Phosphor Bronze
Power Contact Base Material	Phosphor Bronze Alloy
Power Contact Plating Material	Select Gold

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Board-to-Board Card Edge Power Connector, 12 Position, 2.5 mm [.098 in] Centerline, Power & Signal, 4 Power Positions, 8 Signal Positions, CROWN EDGE



Signal Contact MaterialProsphor Bronze AlloyPCB Contact Termination Area Plating MaterialTinContact TypeSocketContact Mating Area Plating Material Thickness76 (µ150 µn1)Contact Current Reting (Max)3 A, 35 AContact Current Reting (Max)Gold (Au)Termination FeaturesGold (Au)Termination FeaturesThrough Hole - SolderMechanical Attachment2.67 mm, 3.56 mm[.14 in]Connector Mounting TypeBeard Mount1Mating Alignment TypePolarizationMeding AlignmentWithPCB Mount AlignmentWithPOursing MaterialThrough In]Dursing MaterialThrough In]Connector Flickness (Recommended)1.6 mm.[063 in]Connector Flicigitt15 mmConnector Flicigitt15 mmConnector Flicigitt15 mmConnector Flicigitt15 mmConnector Flicigitt10 mm.[063 in]Connector Flicigitt15 mmConnector Flicigitt10 mm.[063 in]Connector Flicigitt10 mm.[063 in] <th>Signal Contact Plating Material</th> <th>Gold</th>	Signal Contact Plating Material	Gold
Contact Type         Socket           Contact Mating Area Plating Material Trickness         7.6 µm 30 µml           Contact Current Rating (Max)         3 A, 35 A           Contact Mating Area Plating Material         Gold (Au)           Termination Features         Gold (Au)           Termination Post & Tail Length         2.67 mm, 3.56 mm [.14 in]           Termination Post & Tail Length         2.67 mm, 3.56 mm [.14 in]           Termination Post & Tail Length         2.67 mm, 3.56 mm [.14 in]           Termination Post & Tail Length         2.67 mm, 3.56 mm [.14 in]           Termination Post & Tail Length         2.67 mm, 3.56 mm [.14 in]           Termination Post & Tail Length         2.67 mm, 3.56 mm [.14 in]           Termination Post & Tail Length         2.67 mm, 3.56 mm [.14 in]           Termination Post & Tail Length         2.67 mm, 3.56 mm [.14 in]           Mating Alignment         With           POB Mount Alignment         With           POB Mount Alignment         With           POB Trickness (Recommended)         1.6 mm [.063 in]           Connector Height         1.6 mm [.063 in]           Connector Height         1.5 mm           Connector Height         1.5 mm           Connector Height         1.5 mm           Connector Height <td< td=""><td>Signal Contact Material</td><td>Phosphor Bronze Alloy</td></td<>	Signal Contact Material	Phosphor Bronze Alloy
Contact Mating Area Plating Material Thickness         76 µm(30 µin)           Contact Current Rating (Max)         3 A, 35 A           Contact Mating Area Plating Material         Cold (Au)           Termination Features         Imough Hole - Solder           Termination Method to PCB         Through Hole - Solder           Mating Alignment Type         Board Mount           Mating Alignment Type         Board Mount           Housing Features         With           PCB Mount Alignment Type         With           PCB Mount Alignment         With           PCB Mount Alignment         2.5 mm(.098 in)           Dimensions         2.5 mm(.098 in)           PCB Thickness (Recommended)         1.6 mm(.063 in)           Connector Height         15 mm           Connector Alignment Range         56 - 85 °C( 67 - 185 °F)           Operation/Application         Fourth Signal           Connector Height         1.6 mm(.063 in)           Connector Align         56 - 85 °C( 67 - 185 °F)           Operation/Application         Fourth Application           Circuit Application         Power & Signal           Industry Standards         UL Planmability Rating           UL Ronmability Rating         UL 94V.0           Packaging Method         B	PCB Contact Termination Area Plating Material	Tin
Contact Current Rating (Max)     3 A, 35 A       Contact Mating Area Plating Material     Gold (Au)       Termination Peatures	Contact Type	Socket
Contact Mating Area Plating Material     Cold (Au)       Termination Features     2.67 mm, 3.56 mm[.14 in]       Termination Post & Tail Length     2.67 mm, 3.56 mm[.14 in]       Termination Method to PCB     Through Hole - Solder       Mechanical Attachment     E       Connector Mounting Type     Board Mount       Mating Alignment Type     Polarization       Mating Alignment     With       PCB Mount Alignment     With       Housing Features     Using Material       Connector Height     1.6 mm[.063 in]       Connector Matting Range     -55 - 85 "Cl_67 - 185 "F]       Operating Temperature Range     -55 - 85 "Cl_67 - 185 "F]       Connector Application     Power & Signal       Industry Standards     UL Plarumability Rating       UL Flarumability Rating     UL 94V 0       Packaging Method     Box	Contact Mating Area Plating Material Thickness	.76 μm[30 μin]
Termination Features         Termination Post & Toil I ength       2.67 mm, 3.56 mm[.14 in]         Termination Method to PCB       Through Hole - Solder         Mechanical Attachment       Econnector Mounting Type         Connector Mounting Type       Board Mount         Mating Alignment Type       Polarization         Mating Alignment Type       Polarization         PCB Mount Alignment       With         PCB Mount Alignment       With         Housing Features       Econneptote (Pitch)         PCB Thickness (Recommended)       1.6 mm[.063 in]         Connector Height       15 mm         Connector Height       SoB in         Use Conditions         Upperating Temperature Range       -55 – 85 °C[-67 – 185 °F]         Operating Temperature Range       -55 – 85 °C[-67 – 185 °F]         Operating Temperature Range       -55 – 85 °C[-67 – 185 °F]         Operation/Application       Power & Signal         Industry Standards       UI Planmability Rating       UI 94V.0         UI Flanmability Rating       UI 94V.0       Packaging Hethod	Contact Current Rating (Max)	3 A, 35 A
Termination Post & Tail Length2.67 mm, 3.56 mm, 14 injTermination Method to PCBThrough Hole SolderMechanical AttachmentExample SolderConnector Mounting TypeBoard MountMating Alignment TypePolarizationMating Alignment TypePolarizationMating Alignment Method to PCBWithPCB Mount AlignmentWithHousing FeaturesThermoplasticCenterline (Pitch)2.5 mm[.098 in]DimensionsSold in MethodPCB Thickness (Recommended)1.6 mm[.063 in]Connector Height15 mmConnector Height5.08 inUsage ConditionsSold in MethodCircuit ApplicationPower & SignalIndustry StandardsUI Planmability RatingUI Flammability RatingUI 94V-0Packaging MethodBox	Contact Mating Area Plating Material	Gold (Au)
Termination Method to PCB       Through Hole - Solder         Mechanical Attachment       Edentifical Attachment         Connector Mounting Type       Board Mount         Mating Alignment Type       Polarization         Mating Alignment Type       Polarization         Mating Alignment Type       With         PCB Mount Alignment       With         Housing Features       Using Material         Icenterline (Pitch)       2.5 mm[.098 in]         Dimensions       1.6 mm[.063 in]         Connector Height       15 mm         Connector Height       55 85 %Cl 67 185 %Fl         Operating Temperature Range       55 85 %Cl 67 185 %Fl         Operating Temperature Range       55 85 %Cl 67 185 %Fl         UL Planmability Rating       UL 94V 0         Packaging Features       UL Planmability Rating         Packaging Method       Box	Termination Features	
Mechanical Attachment           Connector Mounting Type         Board Mount           Mating Alignment Type         Polarization           Mating Alignment         With           PCB Mount Alignment         With           Housing Material         Thermoplastic           Centerline (Pitch)         2.5 mm[.098 in]           Dimensions         1.6 mm[.063 in]           Connector Height         1.5 mm           Connector Height         55 – 85 °C[-67 – 185 °F]           Operating Temperature Range         -55 – 85 °C[-67 – 185 °F]           Operating Temperature Range         -55 – 85 °C[-67 – 185 °F]           Circuit Application         Power & Signal           IUL Flammability Rating         UL Plaumability Rating           Packaging Features         Eaclaging Method	Termination Post & Tail Length	2.67 mm, 3.56 mm[.14 in]
Connector Mounting TypeBoard MountMating Alignment TypePolarizationMating AlignmentWithPCB Mount AlignmentWithHousing FeaturesIntermoplasticHousing MaterialThermoplasticCenterline (Pitch)2.5 mm[.098 in]Dimensions1.6 mm[.063 in]PCB Thickness (Recommended)1.6 mm[.063 in]Connector Height15 mmConnector Height15 mmOperating Temperature Range-55 – 85 °C[-67 – 185 °F]Operating Temperature Range-55 – 85 °C[-67 – 185 °F]Outer ApplicationUL 94V-0Industry StandardsUL 94V-0VL Flammability RatingUL 94V-0Packaging MethodBox	Termination Method to PCB	Through Hole - Solder
Mating Alignment Type         Polarization           Mating Alignment         With           PCB Mount Alignment         With           Housing Features         Thermoplastic           Centerline (Pitch)         2.5 mm[.098 in]           Dimensions         1.6 mm[.063 in]           Connector Height         1.6 mm[.063 in]           Connector Height         508 in           Usage Conditions         .508 in           Operating Temperature Range         -55 - 85 °C[-67 - 185 °F]           Operating Temperature Range         UL Planmability Rating           UL Flammability Rating         UL 94V-0           Packaging Method         Box	Mechanical Attachment	
Mating Alignment       With         PCB Mount Alignment       With         Housing Features       Thermoplastic         Iconservice (Pitch)       2.5 mm[.098 in]         Dimensions       I.6 mm[.063 in]         Connector Height       1.6 mm[.063 in]         Connector Height       508 in         Usage Conditions       .508 in         Operating Temperature Range       -55 - 85 °C[-67 - 185 °F]         Operation/Application       Power & Signal         Industry Standards       UL Play No         UL Flammability Rating       UL 94V 0         Packaging Method       Box	Connector Mounting Type	Board Mount
PCB Mount AlignmentWithHousing FeaturesHousing MaterialThermoplasticCenterline (Pitch)2.5 mm[.098 in]DimensionsPCB Thickness (Recommended)1.6 mm[.063 in]Connector Height15 mmConnector Height508 inUage Conditions.508 inOperating Temperature Range-55 – 85 °C[-67 – 185 °F]Operation/ApplicationPower & SignalIndustry StandardsUL Plammability RatingUL Flammability RatingUL 94V-0Packaging MethodBox	Mating Alignment Type	Polarization
Housing FeaturesHousing MaterialThermoplasticCenterline (Pitch)2.5 mm(.098 in]DimensionsPCB Thickness (Recommended)1.6 mm(.063 in]Connector Height15 mmConnector Height.508 inUsage ConditionsUsage ConditionsCorcuit Application.55 – 85 °C(-67 – 185 °F]Circuit ApplicationPower & SignalIndustry StandardsUL Flammability RatingUL 94V-0Packaging MethodBox	Mating Alignment	With
Housing Material       Thermoplastic         Poure Price       2.5 mm[.098 in]         Dimensions       Dimensions         PCB Thickness (Recommended)       1.6 mm[.063 in]         Connector Height       1.5 mm         Connector Height       1.5 mm         Usage Conditions       .508 in         Usage Conditions       .508 cf[.67 – 185 °F]         Operating Temperature Range       .55 – 85 °C[.67 – 185 °F]         Operation/Application       Power & Signal         Industry Standards       UL Flammability Rating         UL Flammability Rating       UL 94V-0         Packaging Method       Box	PCB Mount Alignment	With
Centerline (Pitch)       2.5 mm[.098 in]         Dimensions	Housing Features	
Dimensions         PCB Thickness (Recommended)       1.6 mm[.063 in]         Connector Height       15 mm         Connector Height       .508 in         Usage Conditions       .508 in         Operating Temperature Range       -55 – 85 °C[-67 – 185 °F]         Operation/Application       Power & Signal         Icruit Application       Power & Signal         UL Flammability Rating       UL 94V-0         Packaging Method       Box	Housing Material	Thermoplastic
PCB Thickness (Recommended)1.6 mm[.063 in]Connector Height15 mmIsoge Conditions.508 inUsage Conditions-55 – 85 °C[-67 – 185 °F]Operating Temperature Range-55 – 85 °C[-67 – 185 °F]Operation/ApplicationPower & SignalIcircuit ApplicationPower & SignalIndustry StandardsUL Plammability RatingVL Flammability RatingUL 94V-0Packaging MethodBox	Centerline (Pitch)	2.5 mm[.098 in]
Connector Height       15 mm         So8 in       .508 in         Usage Conditions       -55 – 85 °C[-67 – 185 °F]         Operating Temperature Range       -55 – 85 °C[-67 – 185 °F]         Operation/Application       Power & Signal         Icircuit Application       Power & Signal         Industry Standards       UL Flammability Rating         Packaging Features       Son	Dimensions	
Justice Conditions       .508 in         Usage Conditions       .55 – 85 °C[-67 – 185 °F]         Operation/Application       .55 – 85 °C[-67 – 185 °F]         Circuit Application       Power & Signal         Industry Standards	PCB Thickness (Recommended)	1.6 mm[.063 in]
Usage Conditions         Operating Temperature Range       -55 - 85 °C[-67 - 185 °F]         Operation/Application       -55 - 85 °C[-67 - 185 °F]         Operation/Application       Power & Signal         Icircuit Application       Power & Signal         Industry Standards       UL 94V-0         Vul Flammability Rating       UL 94V-0         Packaging Features       Sover Section	Connector Height	15 mm
Operating Temperature Range       -55 - 85 °C[-67 - 185 °F]         Operation/Application       Fower & Signal         Circuit Application       Power & Signal         Industry Standards       UL Plammability Rating         VL Flammability Rating       UL 94V-0         Packaging Features       Soc		.508 in
Operation/Application       Power & Signal         Circuit Application       Power & Signal         Industry Standards       UL Plammability Rating         UL Flammability Rating       UL 94V-0         Packaging Features       Power & Signal	Usage Conditions	
Circuit ApplicationPower & SignalIndustry StandardsUL Flammability RatingUL 94V-0Packaging FeaturesSocial Social Soci	Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]
Industry Standards         UL Flammability Rating       UL 94V-0         Packaging Features         Packaging Method       Box	Operation/Application	
UL Flammability Rating       UL 94V-0         Packaging Features       Vacaging Method	Circuit Application	Power & Signal
Packaging Features       Packaging Method   Box	Industry Standards	
Packaging Method Box	UL Flammability Rating	UL 94V-0
	Packaging Features	
Packaging Quantity 192	Packaging Method	Box
	Packaging Quantity	192

Board-to-Board Card Edge Power Connector, 12 Position, 2.5 mm [.098 in] Centerline, Power & Signal, 4 Power Positions, 8 Signal Positions, CROWN EDGE



## **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) Candidate List Declared Against: JUNE 2024 (241) 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

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#### 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

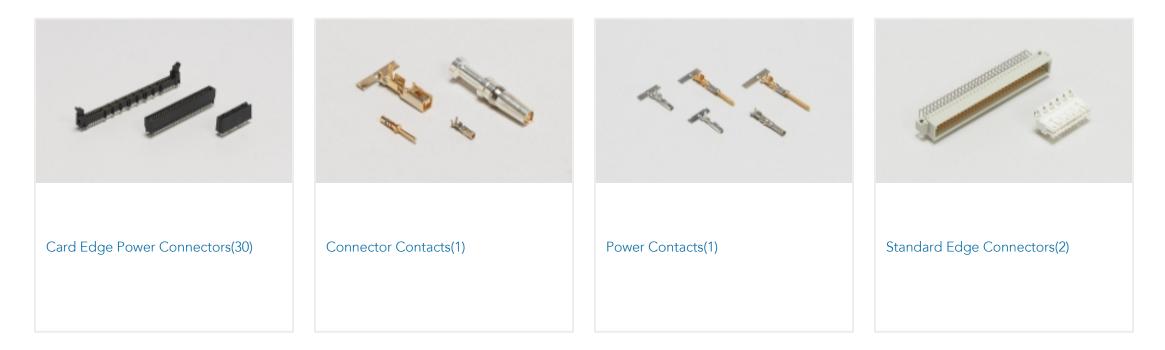
## **Compatible Parts**



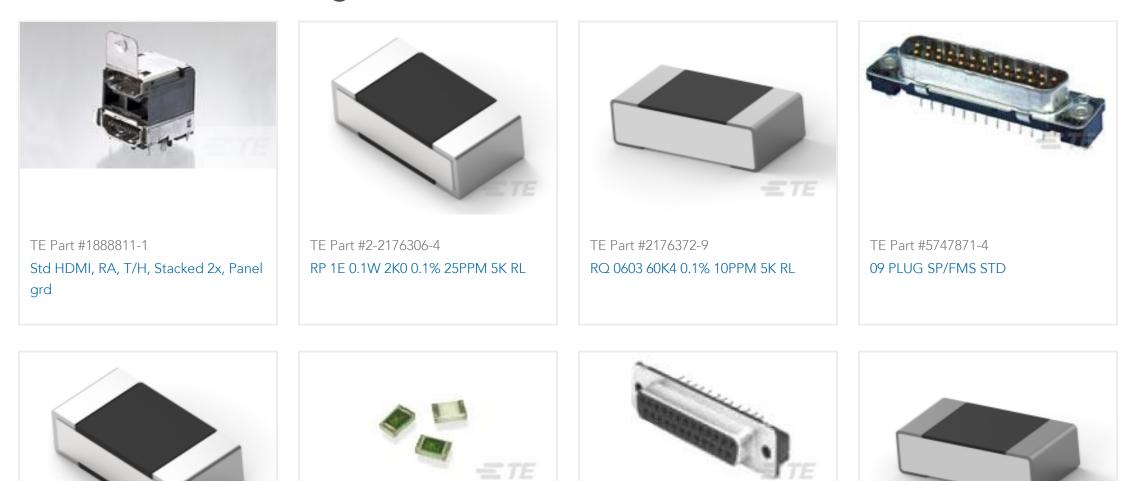
# Also in the Series | CROWN EDGE

Board-to-Board Card Edge Power Connector, 12 Position, 2.5 mm [.098 in] Centerline, Power & Signal, 4 Power Positions, 8 Signal Positions, CROWN EDGE





# Customers Also Bought



TE Part #6-2176306-0

TE Part #1-2176088-3

TE Part #2-5747709-0

TE Part #8-2176369-2



## Documents

Product Drawings 284-0112-12100=TA CONN,SKT,SHO

English

## **CAD** Files

Customer View Model

ENG\_CVM\_CVM\_6651290-2\_B.2d\_dxf.zip

English

3D PDF

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Board-to-Board Card Edge Power Connector, 12 Position, 2.5 mm [.098 in] Centerline, Power & Signal, 4 Power Positions, 8 Signal Positions, CROWN EDGE



3D

Customer View Model ENG\_CVM\_CVM\_6651290-2\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_6651290-2\_B.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Datasheets & Catalog Pages POWER\_CONNECTORS\_CATALOG\_SEC03\_CARD\_EDGE

English

Product Specifications Application Specification

English