### LUMAWISE | Inverted Thru-Board

TE Internal #: 2213188-4

Inverted Thru-Board, Poke-In Connectors, Board-to-Board, 2 Position, 3.3mm [.129in] Centerline, Printed Circuit Board

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Connectors > Lighting Connectors > Poke-In Connectors









Connector System: Board-to-Board

Number of Positions: 2

Centerline (Pitch): 3.3 mm [ .129 in ]

Sealable: No

Connector & Contact Terminates To: Printed Circuit Board

### **Features**

### **Product Type Features**

Lighting Interconnect Level	Level 2
Connector Type	Header
Product Type	Connector
Glow Wire Rating	Standard Part - Not Glow Wire
Product Line	ITB Card Edge Connector
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Configuration Features	
Pre-Designed Cables Available	No
Number of Rows	1
Number of Positions	2
Electrical Characteristics	
Operating Voltage	400 VAC
Body Features	

Inverted

Matte

Header Mating Direction

Contact Termination Area Plating Finish

**Contact Features** 



Termination Method to Printed Circuit Board  Mechanical Attachment  Mating Alignment Mating Retention Without  PCB Mount Alignment Without  PCB Mount Retention With  PCB Mount Retention With  PCB Mount Retention Type Boardlock Connector Mounting Type Board Mount  Housing Features  Housing Color Natural Centerline (Pitch)  Dimensions  Widh 11.3 mm[.445 in] Length 2.3 mm[.377 in] Connector Height Usage Conditions  UV Exposure Rated No  SMT Soldering Temperature  Operating Temperature Range  Vith  With With With With  W		
Contact Mating Area Plating Thickness         2 µm/(8.74 µm)           Contact Layout         Infline           Contact Termination Area Plating Thickness         2 µm/(8.74 µm)           Contact Termination Area Plating Material         Tin-Lead over Nickel           Contact Mating Area Plating Material Finish         Matte           Contact Current Rating (Maxy)         3 A           Termination Features           Termination Method to Printed Circuit Board         Surface Mount           Mechanical Attachment         With           Mating Alignment         Without           Mating Retention         Without           PCB Mount Alignment         Without           PCB Mount Retention Type         Board Mount           Connector Mounting Type         Board Mount           Housing Features         Housing Features           Housing Color         Natural           Centerline (Pitch)         3.3 mm/(.129 in)           Dimensions         Width           Width         11.3 mm/(.445 in)           Length         8.3 mm/(.327 in)           Connector Height         9.6 mm/(.378 in)           Usege Conditions         UV Exposure Rated         No           SMI Soldering Lemperature         20° C(.40 – 266 °F)	Contact Mating Area Plating Material	Tin
Contact Layout Inline Contact Termination Area Plating Thickness 2 µm(78.74 µin)] Contact Termination Area Plating Material Contact Mating Area Plating Material Contact Mating Area Plating Material Finish Matte Contact Current Rating (Max) 3 A  Termination Features  Lermination Method to Printed Circuit Board  Mechanical Attachment  Mating Alignment Muting Alignment Muting Alignment Muting Alignment Without  PCB Mount Alignment With PCB Mount Retention PCB Mount Retention Type Board Mount PCB Mount Retention Type Board Mount PCB Mount Retention Type Board Mount Contector Mounting Type Board Mount Housing Features  Housing Color Center line (Pitch) 3.3 mm(129 in)  Dimensions  Width 11.3 mm(445 in) Length Connector Height Usage Conditions  UV Exposure Rated No SMI Soldering Lemperature Operating Temperature Range  Operating Temperature Range  Ves	Stamped and Formed	Yes
Contact Termination Area Plating Thickness 2 µm[78.24 µin] Contact Termination Area Plating Material Contact Mating Area Plating Material Finish Matte Contact Current Rating (Max) 3.A  Termination Features  Termination Method to Printed Circuit Board Surface Mount  Mechanical Attachment  Mating Alignment Without McBed Mount Alignment Without PCB Mount Alignment Without PCB Mount Retention With PCB Mount Retention With PCB Mount Retention Type Boardlock Connector Mounting Type Board Mount  Housing Features  Housing Color Natural Centerline (Pitch) 3.3 mm[.129 in]  Dimensions  Width 11.3 mm[.445 in] Connector Height 9.6 mm[.378 in]  Usage Conditions  UV Exposure Rated No SMI Soldering Temperature Range 40 – 130 °C(-40 – 266 °F)  Operation/Application  SMT Compatible Yes	Contact Mating Area Plating Thickness	2 μm[78.74 μin]
Contact Termination Area Plating Material Contact Mating Area Plating Material Finish Contact Current Rating (Max) 3 A  Termination Features  Termination Method to Printed Circuit Board Mechanical Attachment  Mating Alignment Mating Retention Mating Retention Mount Alignment Without PCB Mount Retention Type Boardlock Connector Mounting Type Board Mount Housing Features  Housing Color Centerline (Pitch) Dimensions  Width 11.3 mm[445 in] Connector Height Usage Conditions  UV Exposure Rated No SMT Soldaring Temperature Range Operation/Application  SMT Compatible  Yes	Contact Layout	Inline
Contact Mating Area Plating Material Finish Contact Current Rating (Max)  Termination Features  Termination Method to Printed Circuit Board  Mechanical Attachment  Mating Alignment Mating Alignment Muthout Mithout	Contact Termination Area Plating Thickness	2 μm[78.74 μin]
Termination Features Termination Method to Printed Circuit Board Surface Mount  Mechanical Attachment  Mating Alignment Without  PCB Mount Alignment Without  PCB Mount Retention With  PCB Mount Retention Type Board Mount  Housing Features  Housing Color Natural  Centerline (Pitch) 3.3 mm].129 in]  Dimensions  Width 11.3 mm].445 in]  Length Sammi, 327 in]  Connector Height 9.6 mm[.378 in]  Usage Conditions  UV Exposure Rated No SMT Soldering Temperature Range 40 – 130 °C[-40 – 266 °F]  Ceperation/Application  SMT Compatible Yes	Contact Termination Area Plating Material	Tin-Lead over Nickel
Termination Features  Termination Method to Printed Circuit Board Surface Mount  Mechanical Attachment  Mating Alignment Without  Mating Retention Without  PCB Mount Alignment Without  PCB Mount Retention With  PCB Mount Retention Type Boardlock  Connector Mounting Type Board Mount  Housing Features  Housing Color Natural  Centerline (Pitch) 3.3 mm[.129 in]  Dimensions  Width 11.3 mm[.445 in]  Length 8.3 mm[.327 in]  Connector Height 9.6 mm[.378 in]  UV Exposure Rated No  SMT Soldering Temperature Range 40 – 130 °C[.40 – 266 °F]  Operation/Application  SMT Compatible Yes	Contact Mating Area Plating Material Finish	Matte
Termination Method to Printed Circuit Board  Mechanical Attachment  Mating Alignment Mating Retention Mouth	Contact Current Rating (Max)	3 A
Mechanical Attachment  Mating Alignment  Mating Retention  Mithout  PCB Mount Alignment  Mithout  PCB Mount Retention  Mith  PCB Mount Retention  Mith  PCB Mount Retention Type  Board Mount  Housing Features  Housing Color  Centerline (Pitch)  Dimensions  Width  11.3 mm[.415 in]  Length  Connector Height  Wasposure Rated  No  SMT Soldering Temperature  August Augu	Termination Features	
Mating Alignment Without  Mating Retention Without  PCB Mount Alignment Without  PCB Mount Retention With  PCB Mount Retention Type Boardlock  Connector Mounting Type Board Mount  Housing Features  Housing Color Natural  Centerline (Pitch) 3.3 mm[.129 in]  Dimensions  Width 11.3 mm[.445 in]  Length 8.3 mm]. 327 in]  Connector Height 9.6 mm]. 378 in]  Usage Conditions  UV Exposure Rated No  SMT Soldering Temperature Pange 220 °C 428 °F]  Operation/Application  SMT Compatible Yes	Termination Method to Printed Circuit Board	Surface Mount
Mating Retention Without  PCB Mount Alignment Without  PCB Mount Retention With  PCB Mount Retention Type Boardlock  Connector Mounting Type Board Mount  Housing Features  Housing Color Natural  Centerline (Pitch) 3.3 mm[.129 in]  Dimensions  Width 11.3 mm[.445 in]  Length 8.3 mm[.327 in]  Connector Height 9.6 mm[.378 in]  Usage Conditions  UV Exposure Rated No  SMT Soldering Temperature Range -40 – 130 °C[-40 – 266 °F]  Operatior/Application  SMT Compatible Yes	Mechanical Attachment	
PCB Mount Alignment Without PCB Mount Retention With PCB Mount Retention Type Boardlock Connector Mounting Type Board Mount Housing Features Housing Color Natural Centerline (Pitch) 3.3 mm[.129 in] Dimensions Width 11.3 mm[.445 in] Length 8.3 mm[.327 in] Connector Height 9.6 mm[.378 in] Usage Conditions  UV Exposure Rated No SMT Soldering Temperature Range -40 – 130 °C[.40 – 266 °F] Operation/Application  SMT Compatible Yes	Mating Alignment	With
PCB Mount Retention Type Boardlock Connector Mounting Type Board Mount Housing Features Housing Color Natural Centerline (Pitch) 3.3 mm[.129 in] Dimensions Width 11.3 mm[.445 in] Length 8.3 mm[.327 in] Connector Height 9.6 mm[.378 in] Usage Conditions  UV Exposure Rated No SMT Soldering Temperature 220 °C[428 °F] Operation/Application  SMT Compatible Yes	Mating Retention	Without
PCB Mount Retention Type Connector Mounting Type Housing Features  Housing Color Centerline (Pitch) Dimensions  Width 11.3 mm[.445 in] Length 8.3 mm[.327 in] Connector Height Usage Conditions  UV Exposure Rated No SMT Soldering Temperature Coperating Temperature Range Coperation/Application  SMT Compatible  Mount  Board Mount Board Mount  Natural  1.3 mm[.129 in]  1.3 mm[.445 in]  1.3 mm[.445 in]  1.3 mm[.327 in]  9.6 mm[.378 in]  Voic C[428 °F]  -40 – 130 °C[-40 – 266 °F]  Coperation/Application  SMT Compatible Yes	PCB Mount Alignment	Without
Connector Mounting Type  Housing Features  Housing Color  Centerline (Pitch)  Dimensions  Width  11.3 mm[.445 in]  Length  8.3 mm[.327 in]  Connector Height  Usage Conditions  UV Exposure Rated  No  SMT Soldering Temperature  Operating Temperature Range  Operation/Application  SMT Compatible  No  SMT Compatible  Board Mount  Board Mount  Board Mount  Board Mount  Natural  8.3 mm[.129 in]  9.6 mm[.378 in]  Voice (445 in)  9.6 mm[.378 in]  Connector Height  Voice (4428 °F)  -40 – 130 °C[-40 – 266 °F]  Operation/Application	PCB Mount Retention	With
Housing Color Centerline (Pitch) Centerline (Pitch) Connector Height  Usage Conditions  UV Exposure Rated  No SMT Soldering Temperature  Operation/Application  SMT Compatible  Natural  Natural  Natural  1.3 mm[.129 in]  1.3 mm[.445 in]  8.3 mm[.327 in]  9.6 mm[.378 in]  Voe mm[.378 in]  220 °C[428 °F]  Operation Temperature  Ves  Ves	PCB Mount Retention Type	Boardlock
Housing Color Centerline (Pitch)  Dimensions  Width  11.3 mm[.445 in]  Length  8.3 mm[.327 in]  Connector Height  9.6 mm[.378 in]  Usage Conditions  UV Exposure Rated  No SMT Soldering Temperature  Operating Temperature Range  Operation/Application  SMT Compatible  Yes	Connector Mounting Type	Board Mount
Centerline (Pitch)  Dimensions  Width  11.3 mm[.445 in]  Length  8.3 mm[.327 in]  Connector Height  9.6 mm[.378 in]  Usage Conditions  UV Exposure Rated  No  SMT Soldering Temperature  Operating Temperature Range  August 200 °C[428 °F]  Operation/Application  SMT Compatible  Yes	Housing Features	
Width 11.3 mm[.445 in]  Length 8.3 mm[.327 in]  Connector Height 9.6 mm[.378 in]  Usage Conditions  UV Exposure Rated No SMT Soldering Temperature 220 °C[428 °F]  Operating Temperature Range -40 – 130 °C[-40 – 266 °F]  Operation/Application  SMT Compatible Yes	Housing Color	Natural
Width 11.3 mm[.445 in]  Length 8.3 mm[.327 in]  Connector Height 9.6 mm[.378 in]  Usage Conditions  UV Exposure Rated No SMT Soldering Temperature 220 °C[428 °F]  Operating Temperature Range -40 – 130 °C[-40 – 266 °F]  Operation/Application  SMT Compatible Yes	Centerline (Pitch)	3.3 mm[.129 in]
Length 8.3 mm[.327 in]  Connector Height 9.6 mm[.378 in]  Usage Conditions  UV Exposure Rated No  SMT Soldering Temperature 220 °C[428 °F]  Operating Temperature Range -40 – 130 °C[-40 – 266 °F]  Operation/Application  SMT Compatible Yes	Dimensions	
Connector Height  Usage Conditions  UV Exposure Rated  No  SMT Soldering Temperature  Operating Temperature Range  Operation/Application  SMT Compatible  Yes	Width	11.3 mm[.445 in]
UV Exposure Rated  No SMT Soldering Temperature  Operating Temperature Range  Operation/Application  SMT Compatible  Yes	Length	8.3 mm[.327 in]
UV Exposure Rated  SMT Soldering Temperature  Operating Temperature Range  Operation/Application  SMT Compatible  No  220 °C[428 °F]  -40 – 130 °C[-40 – 266 °F]  Yes	Connector Height	9.6 mm[.378 in]
SMT Soldering Temperature  Operating Temperature Range  -40 – 130 °C[-40 – 266 °F]  Operation/Application  SMT Compatible  Yes	Usage Conditions	
Operating Temperature Range -40 – 130 °C[-40 – 266 °F]  Operation/Application  SMT Compatible Yes	UV Exposure Rated	No
Operation/Application  SMT Compatible  Yes	SMT Soldering Temperature	220 °C[428 °F]
SMT Compatible Yes	Operating Temperature Range	-40 – 130 °C[-40 – 266 °F]
	Operation/Application	
Circuit Application Power	SMT Compatible	Yes
	Circuit Application	Power



Circuit Identification Feature	Without
Industry Standards	
Agency/Standard Number	C22.2 No. 182.3-M1987, UL 1977
UL File Number	E28476
Agency/Standard	CSA, UL
UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Method	SMT Pocket Tape

### **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 2021 (211) Candidate List Declared Against: JAN 2021 (211) 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





### Also in the Series | Inverted Thru-Board



Poke-In Connectors(4)



Wire-to-Board Headers & Receptacles (12)

## Customers Also Bought



TE Part #1-1393788-1 AXICOM P2 STANDARD



TE Part #T4142512051-000 M12 Panel Mount PCB



TE Part #2213189-1 Assembly, IPI Connector 22-18GA w/o cap



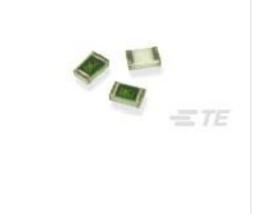
TE Part #2213189-3 Assembly, IPI Connector 22-18GA w cap



TE Part #1-2132415-2 EP2.5 Shrouded HDR ASSY 12P VERT w/oboss



TE Part #2213188-2 Assembly, ICE Connector 1.6 PCB w/o cap



TE Part #1-1879128-7 RN 0402 619R 0.1% 10PPM 1K RL



TE Part #160018-1 RING TONGUE 176 20-16 AWG 0.251 STNP



TE Part #1-1744417-6 16 POS EP 2.5 HSG, GLOW WIRE



TE Part #1-1744439-6 EP2.5 Shrd HDR ASSY 16P VERT, GW



### **Documents**

### **Product Drawings**

Assembly, ICE Connector 1.6 PCB w cap

English

#### **CAD Files**

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_2213188-4\_3\_c-2213188-4-3.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_2213188-4\_3\_c-2213188-4-3.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_2213188-4\_3\_c-2213188-4-3.3d\_stp.zip

English

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

### **Datasheets & Catalog Pages**

Inverted Card Edge & Poke In Connector Brochure

English

**Inverted Thru Board Interconnects** 

English

**Inverted Thru Board Interconnects** 

### **Product Specifications**

**Application Specification** 

English

### **Agency Approvals**

Inverted Thru Board Connectors to IEC 60998

English