



BOARD-TO-BOARD HEADERS & RECEPTACLES



TE CONNECTIVITY (TE)
1FHP,64,30A/S,S,C,S08
1.0mm FH | 1mm FH

5146897-1
TE Internal Number: 5146897-1

Always EU RoHS/ELV Compliant

Connector Style **Plug**

Centerline **.63 mm [1 in]**

Stack Height **8 mm [.315 in]**

Number of Positions **64**

Packaging Method **Tape & Reel**

Active

PRODUCT DRAWING
English

3D PDF

Product Drawings

[PLUG ASSY, W/VACUUM COVER, 1.0mm FH\(IEEE 1386\) CONNECTOR](#)
PDF (TIFF AVAILABLE)
English

[PLUG ASSY, W/VACUUM COVER, 1.0mm FH\(IEEE 1386\) CONNECTOR](#)
PDF (TIFF AVAILABLE)
English

CAD Files

[Customer View Model](#)
2D_DXF.ZIP
English

[3D PDF](#)
PDF
3D

[Customer View Model](#)
3D_IGS.ZIP
English

[Customer View Model](#)
3D_STP.ZIP
English

Catalog Pages/Data Sheets

[Fine Pitch Stacking Connectors - 1.0mm Free Height \(FH\) \(IEEE 1386\) Connectors](#)
PDF
English

Product Specifications

Product Specification [1.0 Mm Mezzanine Connectors](#)
PDF
English

Application Specification [1.0 Mm Free Height \(FH\) Plug And Receptacle Connectors Using Surface Mount Technology \(SMT\)](#)
PDF
English

Product Environmental Compliance

TE Material Declaration [MD_5146897-1_07282015130_dmtec](#)
PDF
English

Please review product documents or [contact us](#) for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

Product Type Features	Connector Style	Plug
	Board-to-Board Configuration	Mezzanine
	PCB Mounting Orientation	Vertical
	Boss	With
	Connector System	Board-to-Board
	Connector Type	Connector Assembly
	Row-to-Row Spacing (mm)	1
	Applies To	Printed Circuit Board
	Product Type	Connector
Series	1mm FH	
Configuration Features	Number of Positions	64
	Number of Columns	32
	Stackable	Yes
	Number of Rows	2
	Solder Tail Orientation	Inline
Electrical Characteristics	Voltage (VAC)	250
Signal Characteristics	Differential Signaling	Yes
Contact Features	Contact Mating Area Plating Material	Gold
	Contact Mating Area Plating Thickness	.76 μm [29.92 μin]
	Contact Termination Area Plating Thickness	3.81 μm [150 μin]
	Contact Current Rating (A)	1
	Contact Configuration	Single Beam
	Solder Tail Contact Plating Material	Tin over Nickel
	Underplate Material Thickness	1.27 μm [50 μin]
	Solder Tail Contact Plating Thickness	3.81 μm [150 μin]
	Underplate Material	Nickel
	Contact Transmits (Typical)	Signal (Data)
	Contact Type	Pin
	Contact Termination Area Plating Material	Gold

	Contact Termination Area Plating Material	1 in
	Contact Layout	Inline
	Contact Base Material	Phosphor Bronze
	Contact Termination Area Plating Material Finish	Matte
Termination Features	Termination Method to PC Board	Surface Mount
Mechanical Attachment	Mating Alignment	Without
	Mating Alignment Type	Polarizing Tab
	PCB Mount Retention	With
	PCB Mount Retention Type	None
	PCB Mount Alignment	With
	PCB Mount Alignment Type	Locating Posts
	Mating Retention	Without
Housing Features	Centerline	.63 mm [1 in]
	Housing Color	Black
	Housing Material	Thermoplastic
	Housing Entry Style	Top
Dimensions	Stack Height	8 mm [.315 in]
	Width	6.04 mm [.238 in]
	Length	34.22 mm [1.347 in]
	Mating Post Length	4.27 mm [.168 in]
	Tail Length	2.05 mm [.081 in]
	Height	6.35 mm [.249 in]
Usage Conditions	Operating Temperature Range	-55 – 110 °C [-67 – 230 °F]
	Housing Material Temperature	High
Operation/Application	Pick and Place Cover	With
	For Use With	Receptacle Assembly
Industry Standards	Agency/Standard	CSA, UL
	UL File Number	E28476
	Industry Standard	IEEE 1386 Mezzanine Connector
	CSA Certified	Yes

UL Rating	Listed
UL Flammability Rating	UL 94V-0
CSA File Number	LR7189

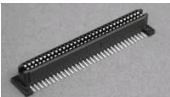

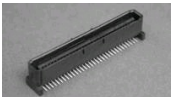
Packaging Features	Packaging Method	Tape & Reel
	Packaging Quantity	500

Product Compliance

[Statement of Compliance PDF](#)

[VIEW ALL PRODUCT COMPLIANCE](#)

CUSTOMERS ALSO BOUGHT

BOARD-TO-BOARD HEADERS & RECEPTACLES	RJ45 CONNECTORS	BOARD-TO-BOARD HEADERS & RECEPTACLES	STANDARD RECTANGULAR CONNECTORS
			
1FHR, 64, 30A/S, S, C, S08, 09, 10 5146893-1	STK MJ, 8POS, 2X1, SHLD, CAT5 5569380-1	1FHP, 64, 30A/S, S, N, S09, 11, 14 5120526-1	DYNAMIC D2100 HDR V ASSY 3P 1318123-1
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Relation Type ▼

RELATIONSHIP

Mating Products

Used to identify Mating Parts

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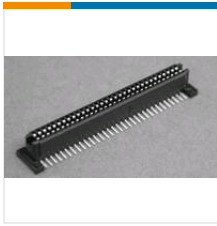
	<p>PRODUCT - MATING PRODUCTS</p> <p>Connectors - Board-to-Board Headers & Receptacles 1.0mm FH 1mm FH</p> <p>1FHR, 64, 30A/S, S, C, S08, 09, 10 - 5146893-1</p> <p>TE INTERNAL NUMBER: 5146893-1</p> <p>✓ Active</p>	<p>Always EU RoHS/ELV Compliant</p> <p>Connector Style Receptacle</p> <p>Centerline .63 mm</p> <p>Stack Height 8 mm, 9 mm, 10 mm</p> <p>Number of Positions 64</p> <p>Packaging Method Tape & Reel</p>	<input checked="" type="checkbox"/>
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RELATIONSHIP

Mating Products

Used to identify Mating Parts

[See All Mating Products](#)



PRODUCT - MATING PRODUCTS

Connectors - Board-to-Board Headers & Receptacles
1.0mm FH | 1mm FH

**1FHR, 64, 30A/S, N, C,
S08, 09, 10 - 5120528-1**
TE INTERNAL NUMBER: 5120528-1

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Centerline **.63 mm**

Stack Height **8 mm, 9 mm, 10 mm**

Number of Positions **64**

Packaging Method **Tape & Reel**

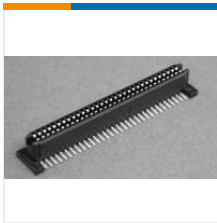


RELATIONSHIP

Mating Products

Used to identify Mating Parts

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PRODUCT - MATING PRODUCTS

Connectors - Board-to-Board Headers & Receptacles
1.0mm FH | 1mm FH

**1FHR, 64, 30A/S, S, N,
S08, 09, 10 - 5120521-1**
TE INTERNAL NUMBER: 5120521-1

✓ Active

Always EU RoHS/ELV Compliant

Connector Style **Receptacle**

Centerline **.63 mm**

Stack Height **8 mm, 9 mm, 10 mm**

Number of Positions **64**

Packaging Method **Tape & Reel**

