



TE Connectivity: Every Connection Counts
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CONNECTORS



BOARD-TO-BOARD HEADERS & RECEPTACLES



TE CONNECTIVITY (TE) BTB,0.5 PITCH,80P,RCPT.,3H,W/ BOSS & PEG

0.5mm FH | .5mm FH

8-2041251-0

TE Internal Number: 8-2041251-0

Not reviewed for RoHS Compliance

Connector Style **Receptacle**

Centerline **.0197 mm [.5 in]**

Stack Height **5 mm [.197 in]**

Number of Positions **80**

Packaging Method **Tape & Reel**

Obsolete

[↓ PRODUCT DRAWING](#)
English

[↓ 3D PDF](#)

Product Drawings

BOARD TO BOARD CONNECTOR, 0.5mm PITCH, FINE-MATE, RECEPTACLE, WITH BOSSES & PEG

PDF
English

CAD Files

3D PDF

PDF
3D

Customer View Model

2D_DXF.ZIP
English

Customer View Model

3D_IGS.ZIP
English

Customer View Model

3D_STP.ZIP
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

Receptacle

Board-to-Board Configuration

Mezzanine

Type

COM Express

PCB Mounting Orientation	Vertical	
Row-to-Row Spacing	2 mm [.0786 in]	
Applies To	Printed Circuit Board	
Product Type	Connector	
Boss	With	
Series	Free Height	
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Configuration Features	Number of Positions	80
	Preloaded	Yes
	Number of Rows	2
	Stackable	Yes
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Electrical Characteristics	Voltage (VAC)	50
	Insulation Resistance (MΩ)	500
	Dielectric Withstanding Voltage (VAC)	150
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Body Features	Grounding Plate	Without
	Sealant	Without
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Contact Features	Contact Mating Area Plating Material	Gold
	Contact Mating Area Plating Thickness	.254 μm [9.99998 μin]
	Contact Current Rating (A)	.5
	Contact Type	Socket
	Solder Tail Contact Plating Material	Gold Flash
	Contact Layout	Inline
	Grounding Contact	Without
	Solder Tail Contact Plating Thickness	.0254 μm [1 μin]
	Contact Base Material	Phosphor Bronze
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Termination Features	Termination Method to PC Board	Surface Mount
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Mechanical Attachment	Mating Alignment Type	Keyed
	PCB Mount Retention	Without

PCB Mount Retention Type

Solder Peg

PCB Mount Alignment Type

Locating Posts

Housing Features

Centerline

.0197 mm [.5 in]

Housing Material

LCP GF30 (Liquid Crystal Polymer)

Housing Color

Black

Dimensions

Stack Height

5 mm [.197 in]

Height

2.1 mm [.0825 in]

Usage Conditions

Operating Temperature Range

-45 – 125 °C [-49 – 257 °F]

Operation/Application

Pick and Place Cover

Without

Assembly Process Feature

None

For Use With

Plug Housing

Industry Standards

UL Flammability Rating

UL 94V-0

Packaging Features

Packaging Method

Tape & Reel

Packaging Quantity

1000

Product Compliance[Statement of Compliance](#)

PDF

[VIEW ALL PRODUCT COMPLIANCE](#)