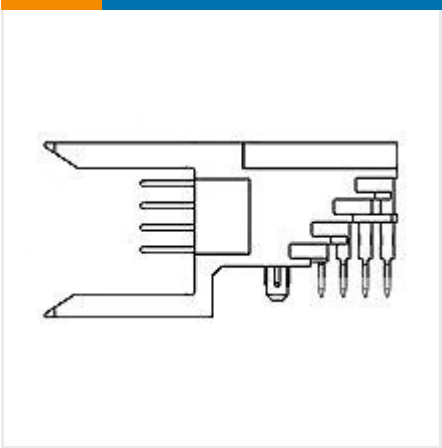




+ CONNECTORS

BOARD-TO-BOARD HEADERS & RECEPTACLES



✓ Active

TE CONNECTIVITY (TE)  
2MMFB,IS,ASY,048,SIG,HDR,SL  
Z-PACK | Future Bus+

5223513-2  
TE Internal Number: 5223513-2

EU RoHS Compliant  
EU ELV Compliant

Connector Style Plug  
Number of Positions 48  
Centerline (Pitch) 2 mm [ .079 in ]  
Packaging Method Tube  
Contact Mating Area Plating Material Gold over Palladium Nickel

↓ PRODUCT DRAWING  
English

↓ 3D PDF

DOCUMENTATION

Product Drawings

ASSEMBLY, PIN, SIGNAL, RIGHT ANGLE, 4 ROW, Z-PACK 2mm FB  
PDF (TIFF AVAILABLE)  
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

Product Specifications

Application Specification

Z-PACK 2 Mm FB (Futurebus+) Receptacle And Pin Header Connectors

PDF

English

Product Specification

Connector, Z-PACK\*, 2 Mm FB, Signal And Power

PDF

English

Qualification Test Report

Connector, Z-PACK, 2mm FB, Signal & Power

TIF

English

Connector, Z-PACK, 2mm FB, Signal & Power

PDF

English

Connector, Z-PACK, 2mm FB, Signal & Power

PDF

Japanese

Product Environmental Compliance

TE Material Declaration

MD\_5223513-2\_030720171129\_dmtec

PDF

English

FEATURES



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

Module Type Signal

Connector Style Plug

Connector & Contact Terminates To Printed Circuit Board

Post Type Solder Post

Row-to-Row Spacing 2 mm [ .079 in ]

PCB Mounting Orientation Right Angle

Connector Type Header

Boss Without

Product Type Connector

Configuration Features

**Stackable**   No  
**Number of Positions**   48  
**Number of Rows**   4  
**Sequencing**   No  
**Number of Signal Positions**   48

Electrical Characteristics

**Dielectric Withstanding Voltage (VAC)**   1000  
**Voltage (VAC)**   30  
**Insulation Resistance (MΩ)**   100 – 5000

Body Features

**Post Plating Material**   Tin

Contact Features

**Solder Tail Contact Plating Material**   Tin  
**Contact Mating Area Plating Material**   Gold over Palladium Nickel  
**Contact Mating Area Plating Thickness**   .08 μm [ 3.1496 μin ]  
**Contact Current Rating (Max) (A)**   3  
**Solder Tail Contact Plating Thickness**   3.81 μm [ 149.9997 μin ]  
**Contact Layout**   Matrix  
**Contact Base Material**   Phosphor Bronze  
**Contact Type**   Pin

Termination Features

**Termination Method to PC Board**   Through Hole - Solder  
**Termination Post Length**   2.73 mm [ .107 in ]  
**Interface Type**   Futurebus+

Mechanical Attachment

**Mating Alignment Type**   Polarization  
**PCB Mount Retention**   With  
**PCB Mount Alignment Type**   Locating Posts

Housing Features

**Centerline (Pitch)**   2 mm [ .079 in ]  
**Housing Material**   LCP (Liquid Crystal Polymer)  
**Housing Color**   Natural

Dimensions

**Mating Post Length**   5 mm [ .197 in ]  
**Height**   11.2 mm [ .44016 in ]  
**Tail Length**   2.73 mm [ .107289 in ]  
**Width**   16 mm [ .622 in ]

Usage Conditions

**Operating Temperature Range (°C)**   -55 – 125

Operation/Application

**Assembly Process Feature** Board Standoff  
**Pick and Place Cover** Without

Packaging Features

**Packaging Method** Tube  
**Packaging Quantity** 24

**PRODUCT COMPLIANCE**



Statement of Compliance

**Statement of Compliance**  
PDF