

ERNI | ERNI MicroCon

TE Internal #: 294020-E

PCB Mount Receptacle, Vertical, Board-to-Board, 80 Position, .8 mm [.031 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount,

ERNI MicroCon

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: PCB Mount Receptacle

PCB Mount Orientation: Vertical
Connector System: Board-to-Board

Number of Positions: 80

Number of Rows: 2

Features

Product Type Features

PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly
Configuration Features	
Number of Columns	40
Number of Loaded Positions	80
Stacking Configuration	Stack Through
Connector Contact Load Condition	Fully Loaded
Board-to-Board Configuration	Orthogonal, Parallel
Stackable	Yes
PCB Mount Orientation	Vertical



Number of Positions	80
Number of Rows	2
Electrical Characteristics	
Insulation Resistance	100 ΜΩ
Dielectric Withstanding Voltage (Max)	500 Vrms
Body Features	
Primary Product Color	Black
Contact Features	
Contact Shape & Form	Dual Beam
PCB Contact Termination Area Plating Material Thickness	4 – 6 μm[157.48 – 236.22 μin]
Contact Layout	Matrix
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Receptacle
Contact Current Rating (Max)	2.1 A
Termination Features	
Termination Method to PCB	Surface Mount
Mechanical Attachment	
Mounting Alignment Feature Length	.7 mm[.027 in]
Mating Alignment Type	Blindmate
PCB Mount Alignment Type	Locating Posts
PCB Mount Retention	Without
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Connector Mounting Type Mating Alignment	With
Mating Alignment	
Mating Alignment Housing Features	With
Mating Alignment Housing Features Mating Entry Location	With
Mating Alignment Housing Features Mating Entry Location Housing Material	With Top LCP
Mating Alignment Housing Features Mating Entry Location Housing Material Centerline (Pitch)	With Top LCP



Stack Height	6 mm
Connector Width	4.7 mm[.185 in]
Connector Height	6.6 mm[.259 in]
Connector Length	35.9 mm[1.413 in]
Usage Conditions	
Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
Operation/Application	
Circuit Application	Power & Signal
Industry Standards	
Compatible With Agency/Standards Products	DIN, UL
UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Reel Diameter	330 mm[12.99 in]
Packaging Quantity	740

Product Compliance

Packaging Method

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
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: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

Tape & Reel

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





DRCQ 0,80 80 M 2 SMD M1 137 E009

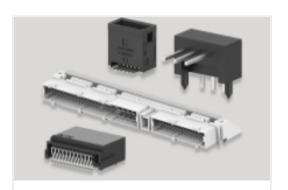


Also in the Series | ERNI MicroCon

176 GU-







PCB Headers & Receptacles(44)



Rectangular Power Connectors(44)

Customers Also Bought





Documents

CAD Files

Customer View Model

ENG_CVM_CVM_294020-E_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_294020-E_1.3d_stp.zip

English

Customer View Model

PCB Mount Receptacle, Vertical, Board-to-Board, 80 Position, .8 mm [.031 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, ERNI MicroCon



ENG_CVM_CVM_294020-E_1.3d_igs.zip

English

3D PDF

3D

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Datasheets & Catalog Pages

ERNI MicroCon Connector

English

ERNI MicroCon 0.8 mm Connectors

German

ERNI MicroCon 0.8 mm Connectors

English