

234098-E ✓ ACTIVE

ERNI | ERNI MicroSpeed

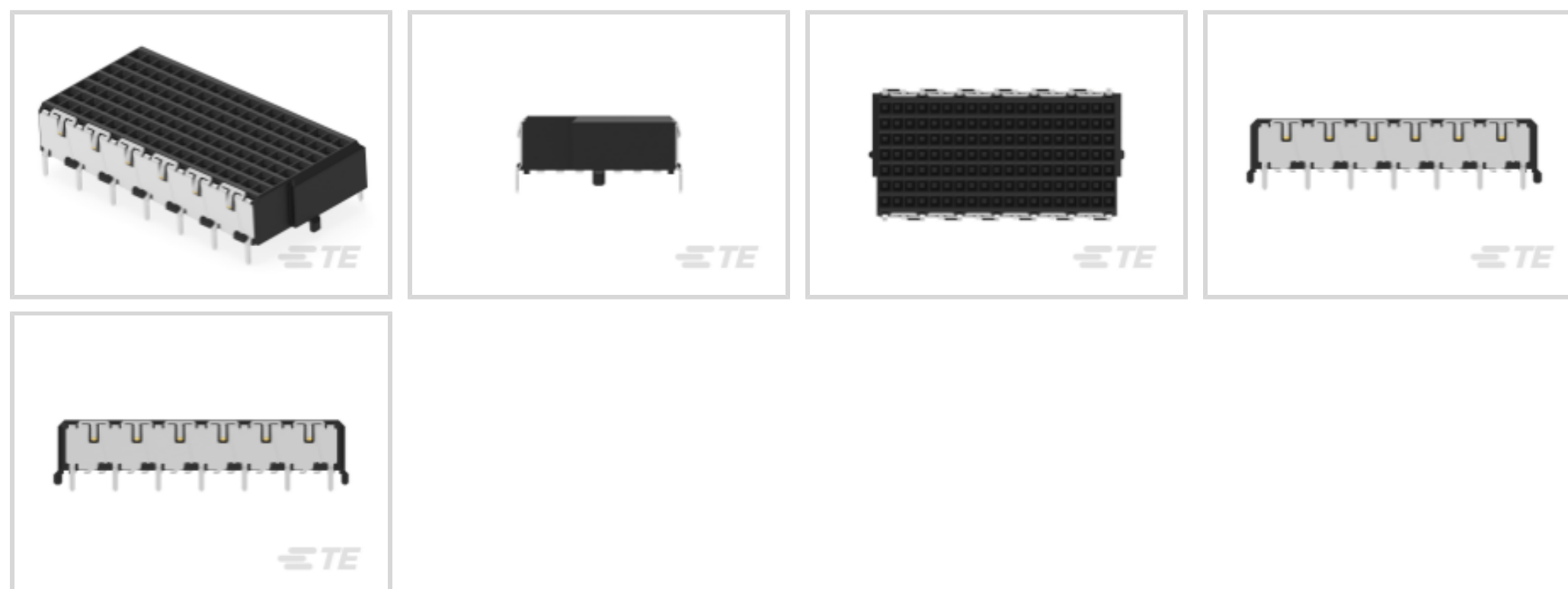
TE Internal #: 234098-E

PCB Mount Receptacle, Vertical, Board-to-Board, 133 Position, 1 mm [.039 in] Centerline, Fully Shrouded, Gold (Au), ERNI MicroSpeed

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

Connector System: **Board-to-Board**

Number of Positions: **133**

Number of Rows: **7**

Centerline (Pitch): **1 mm [.039 in]**

Features

Product Type Features

PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board
Header Type	Fully Shrouded
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Columns	19
Number of Loaded Positions	133
Connector Contact Load Condition	Fully Loaded
Stackable	Yes
Number of Positions	133
Number of Rows	7
PCB Mount Orientation	Vertical
Board-to-Board Configuration	Orthogonal, Parallel



Electrical Characteristics

Dielectric Withstanding Voltage (Max)	500 Vrms
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Signal Characteristics

Data Rate	25 Gb/s
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Body Features

Primary Product Color	Black
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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)	.9 A

Termination Features

Termination Method to PCB	Through Hole - Solder
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Mechanical Attachment

Mounting Alignment Feature Length	.7 mm[.027 in]
Mating Retention	With
PCB Mount Alignment Type	Locating Posts
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	With

Housing Features

Centerline (Pitch)	1 mm[.039 in]
Housing Material	Liquid Crystal Polymer (LCP)

Dimensions

Row-to-Row Spacing	1.25 mm[.049 in]
Stack Height	4 mm



Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]

Operation/Application

Circuit Application	High Speed Data, Signal
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Industry Standards

Compatible With Agency/Standards Products	IEC, UL
Compatible With Approved Standards Products	UL E84703
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Tape & Reel
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Product Compliance

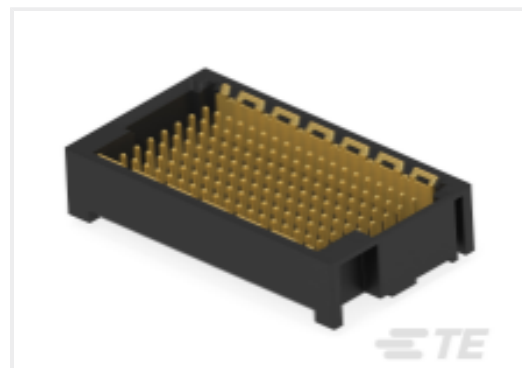
[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
Halogen Content	Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

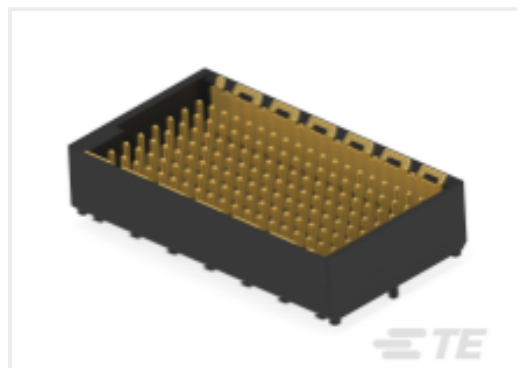
Product Compliance Disclaimer

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>

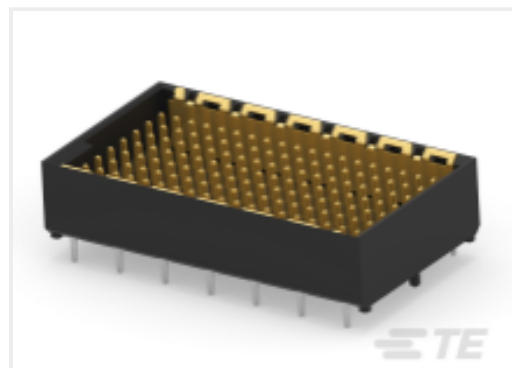
Compatible Parts



TE Part # 394257-E
MSPEED 133 M SMD M1 B A-G VVV
137 176 *

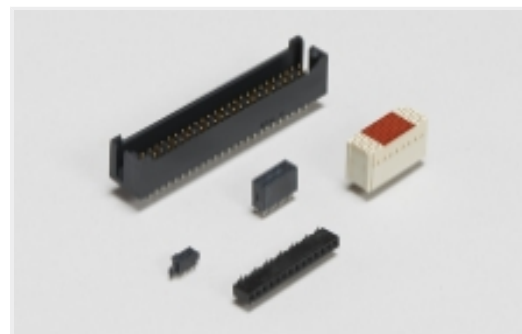


TE Part # 214355-E
MSPEED 133 M SMD M1 * A-G VVV
137 176 *

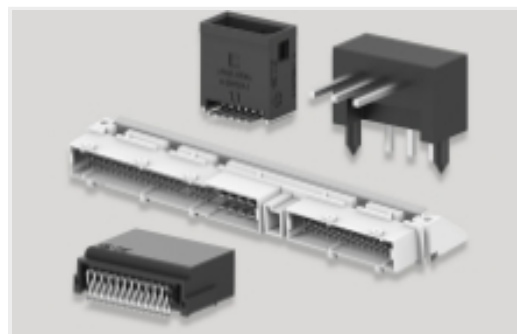


TE Part # 234753-E
MSPEED 133 M SMDTHR M1 * A-G
VVV 137 17

Also in the Series | ERNI MicroSpeed



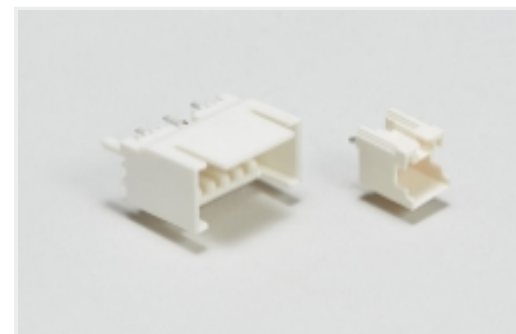
Board-to-Board Headers &
Receptacles(60)



PCB Headers & Receptacles(67)



Rectangular Power Connectors(50)



Wire-to-Board Headers & Receptacles
(7)

Documents

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_234098-E_F.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_234098-E_F.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_234098-E_F.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[Datasheet - ERNI Microspeed 1.0mm Connectors](#)

[Datasheet - ERNI Microspeed 1.0mm Connectors](#)

English