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BergStik®
Product Presentation



FCi Basics

BergStik®
Value proposition

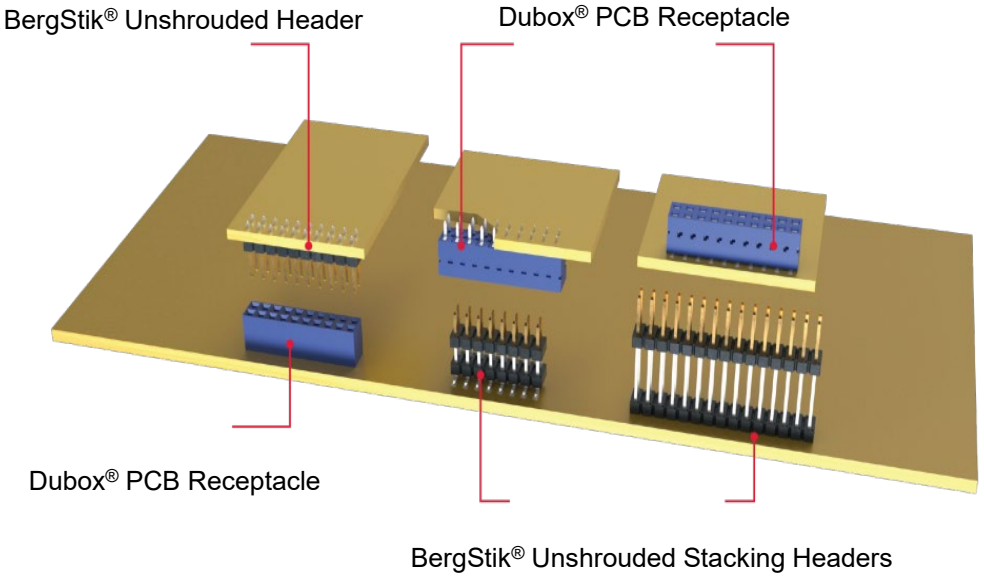
- BergStik® is a standard, proven unshrouded header family on 2.54mm pitch, available in through-hole; surface-mount, pin-in-paste and press-fit solder options
- BergStik® comes in single and double row; straight or right-angle orientation with to 2 to 72 positions and stack heights up to 65 mm
- BergStik® “breakaway” design enables each connector to be easily cut or broken at the required length
- BergStik® is capable of carrying up to 3A per contact

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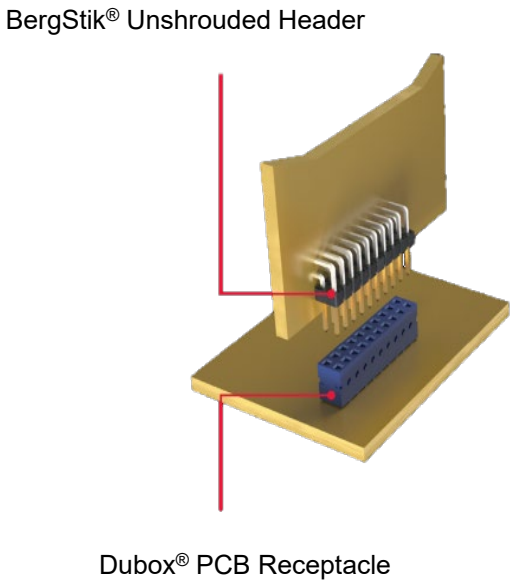
BergStik®
Range overview

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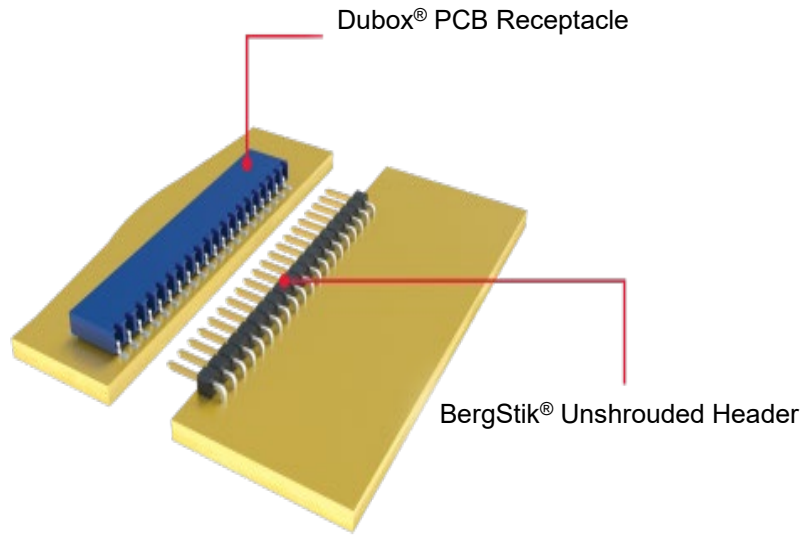
Vertical



Right-Angle



Coplanar



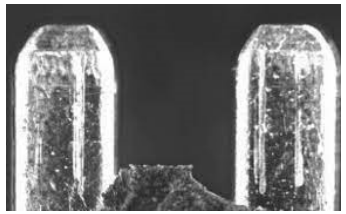
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BergStik®
Pin Technical focus

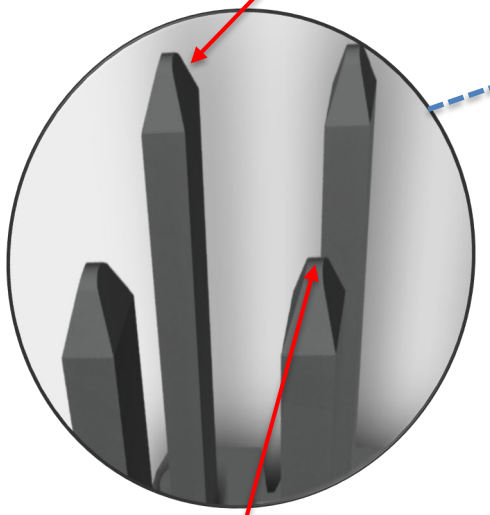
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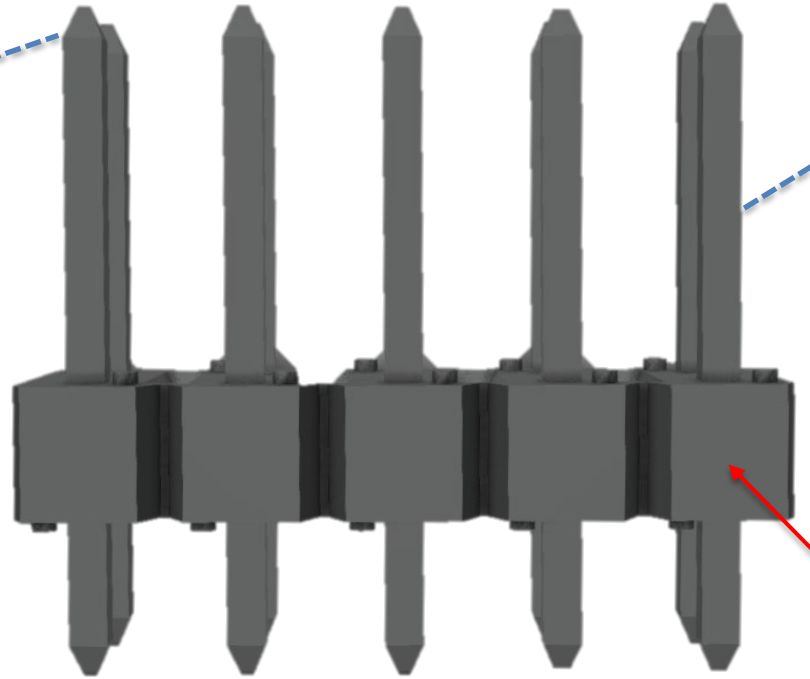
Stamped pin tip from drawn wire with perfect symmetry and no burr

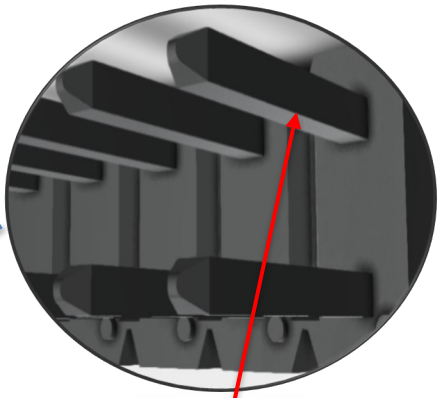
- Perfect symmetry
- Smoother insertion
- High numbers of mating cycles
- No metal burrs on the edges



Example of uneven pin tips







Coined drawn wire with regular section and geometry

- Optimized plating
- Reduced risk of whiskers, bumps
- No risk of peeling for the plating

Selective plating

- Cost efficient plating process
- Controlled porosity

Nickel underlayer applied on the whole pin

- No air exposure
- Limited risk of corrosion



Example of damaged pin plating

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BergStik®
Features and Benefits

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Features	Benefits
High Temperature thermoplastic material	**Reflow** Compatible
Variable spacing height for Stacking Headers	Meets your needs for a **wide range** of applications
Allow dual entry mating from top or bottom	Suitable for **mezzanine applications** with extra flexibility in case of different stack height requirements
Drawn (not stamped) 0.64mm square wire presenting 4 equal quality surfaces	Can be used for **wire wrapping**
Stand offs design	Allow **cleaning** to eliminate soldering contaminations
Selective plating	Cost efficient, while maintaining **excellent performance**
Tin-Lead plating in press-fit area	**Easy pin insertion** on the PCB
Retention Legs Optional	**Higher retention** on your PCB
Flexible press-fit pin designed to fit the same 1.02mm diameter hole as the solder to board product	**Same layout** on TMT and Press Fit
According to DIN 41651 specification, HE13 and BT D2632	**Industry qualified**, proven products

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BergStik® Board-to-Board configuration
Range overview, Vertical

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BergStik® Vertical Unshrouded Header Single Row

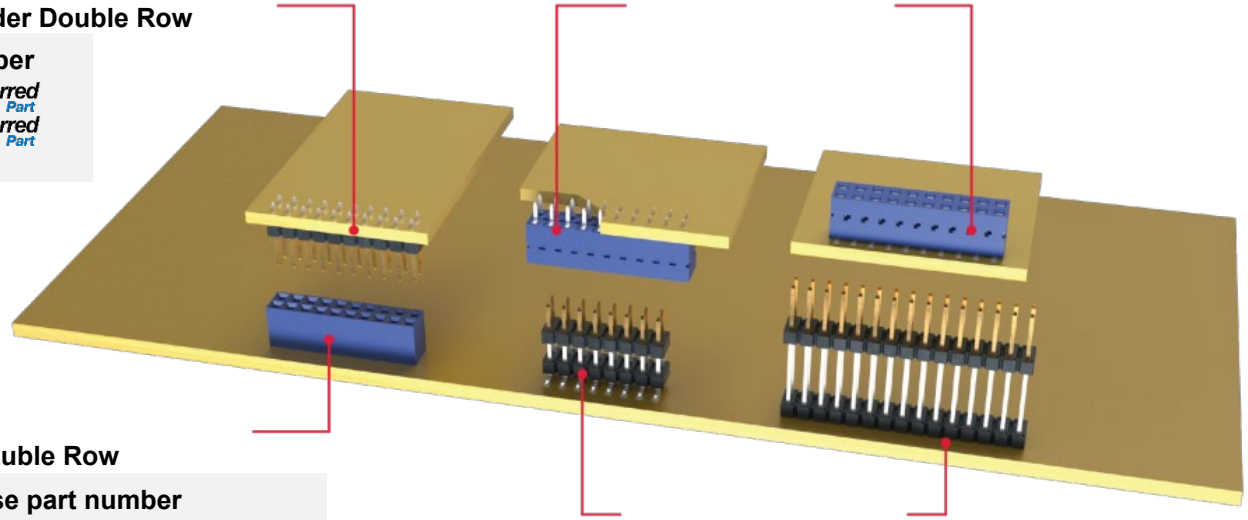
Type	Base part number
Single Row TMT	77311 Preferred Part
Single Row SMT	95293 Preferred Part
Single Row Press-Fit	93689

Dubox® Vertical Receptacle Single Row

Type	Base part number
Single Row TMT	75915
Single Row SMT	91601
Single Row SMT (w/ pegs)	91614

BergStik® Vertical Unshrouded Header Double Row

Type	Base part number
Double Row TMT	77313 Preferred Part
Double Row SMT	95278 Preferred Part
Double Row Press-Fit	93690



Preferred Part

- Available at distributors
- Shortest lead-times
- Industrial standard & proven solutions

Dubox® Vertical PCB Receptacle Double Row

Type	Base part number
Double Row TMT	87606
Double Row SMT	89898
Double Row SMT (w/ pegs)	91618

BergStik® Vertical Unshrouded Stacking Header

Type	Base part number
Single Row Stacking, TMT	54121
Double Row Stacking, TMT	54122
Double Row Stacking, SMT	54242

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BergStik® Board-to-Board configuration Range overview, Right-Angle

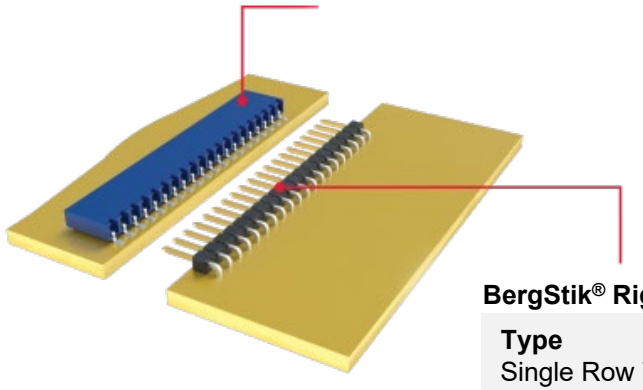
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Dubox® Horizontal PCB Receptacle Single Row

Type	Base part number
Single Row TMT	89882
Single Row SMT	71607
Single Row SMT (w/ pegs)	10119678

Dubox® Horizontal PCB Receptacle Double Row

Type	Base part number
Double Row TMT	89883
Double Row SMT	71609

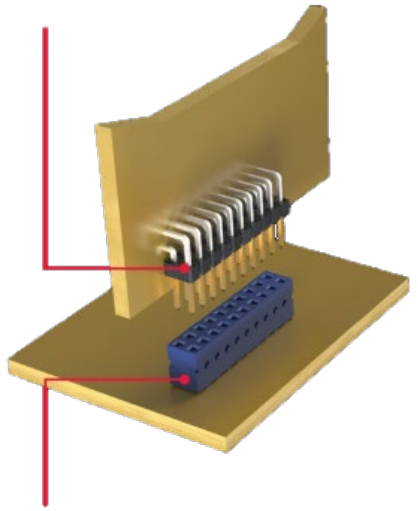


BergStik® Right-Angle Unshrouded Header Single Row

Type	Base part number
Single Row TMT	77315
Single Row PiP	10082201
Single Row SMT	10119333
Single Row SMT (w/ pegs)	10119332

BergStik® Right-Angle Unshrouded Header Double Row

Type	Base part number
Double Row TMT	77317
Double Row PiP	10082202
Double Row SMT	10118084
Double Row SMT (w/ pegs)	10118085



Preferred Part

- Available at distributors
- Shortest lead-times
- Industrial standard & proven solutions

Dubox® Vertical Receptacle Single Row

Type	Base part number
Single Row TMT	75915
Single Row SMT	91601
Single Row SMT (w/ pegs)	91614

Dubox® Vertical PCB Receptacle Double Row

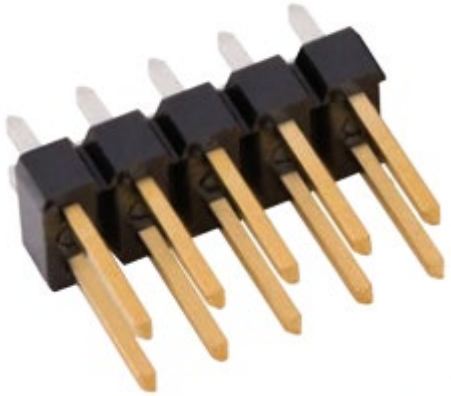
Type	Base part number
Double Row TMT	87606
Double Row SMT	89898
Double Row SMT (top entry w/ pegs)	91618

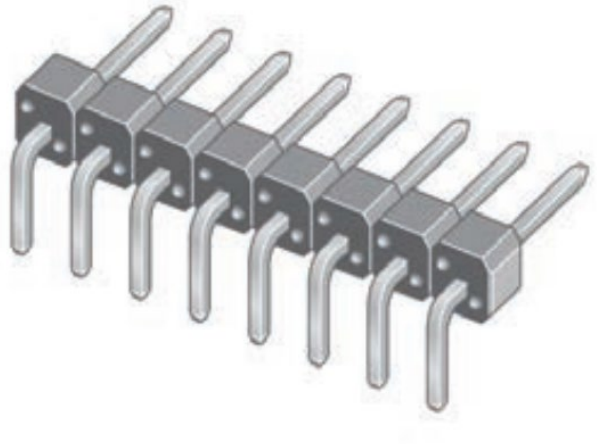
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BergStik®
Product specification

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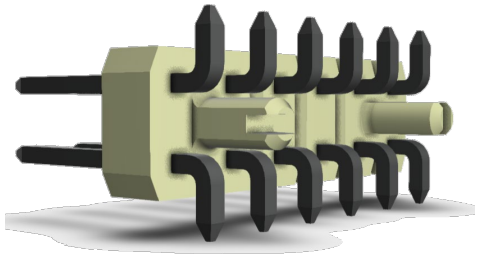
Material	• Housing: High Temperature Thermoplastic, Black • Flammability Rating: UL94V-0 • Pin: Phosphor-bronze • Plating: Gold / GXT or Tin over 1.27µm (50µ") nickel
Environmental	• Operating Temperature: -65°C to +125°C
Electrical Performance	• Current Rating: 3A continuous • Insulation Resistance: 5000 MΩmin. • Dielectric Withstanding Voltage: 1500V
Mechanical Performance	• Pin Retention to Housing: 9N min



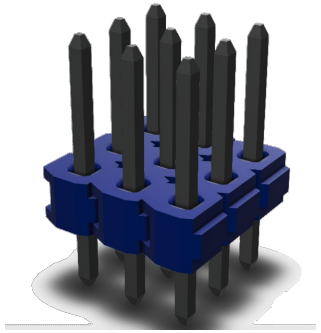


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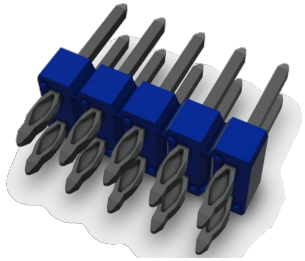
BergStik®
Accessories & options



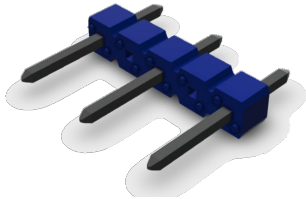
Locating peg



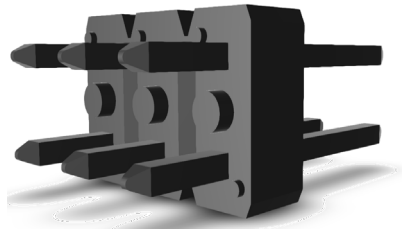
Stackable headers



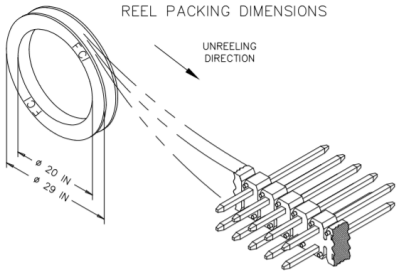
Press-Fit



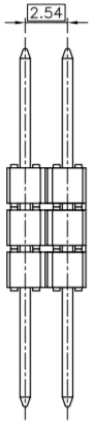
Selective loading



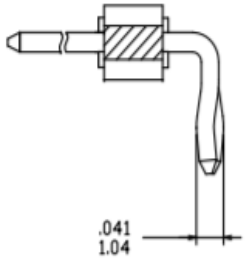
Pin Paste



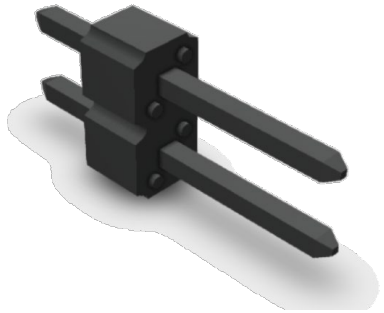
Bergstrip® endless reel



Triple body



Retention legs



ECONOSTIK® series
full gold flash plating
(0.025µm)



Jumper series

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BergStik®
Main Markets & Applications

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Industrial

- Industrial Automation
- Instrumentation
- Medical
- Gaming
- Vending Machines

IT/Datacom

- Servers
- Communication Equipment

Automotive

- Electronic Control Systems

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BergStik®
Additional Information

- BergStik® web product landing page
- BergStik® datasheet

- BergStik® Selective plated headers product specification

- BergStik® Stacking Headers TMT product configurator

- BergStik® Single Row Right-Angle TMT product configurator
- BergStik® Double Row Right-Angle TMT product configurator

- BergStik® Vertical Unshrouded Headers TMT; SMT product configurator
- BergStik® Vertical Unshrouded Headers PiP product configurator

- BergStik® Single Row Press-Fit product configurator
- BergStik® Double Row Press-Fit product configurator

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Glossary
Generic terms and definitions

• Header	Housing with pins (male connector)
• Receptacle	Female housing
• Terminal	Crimp-to-Wire contact
• Vertical	Connection axis perpendicular to the board
• Horizontal	Connection axis parallel to the board
• SMT 	Surface-Mount Technology
• TMT 	Through-Mount Technology
• PiP	Pin-in-Paste
• Low-profile	Connector with small height dimensions
• Bottom entry	Connection through the lateral side of the receptacle
• Top entry	Connection through the upper side of the receptacle
• Locating peg	Feature to be positioned on PCB holes for better alignment

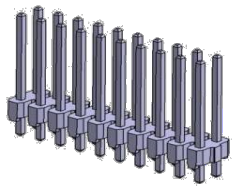
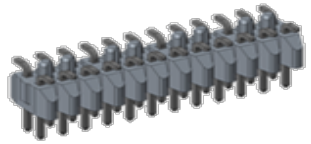
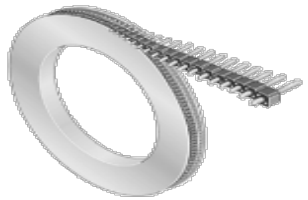
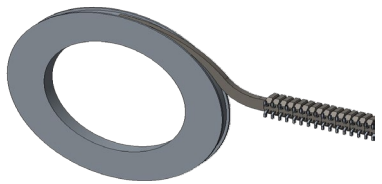
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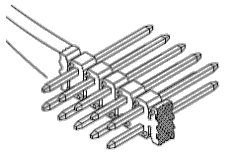
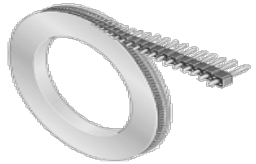
Endless pin header solution

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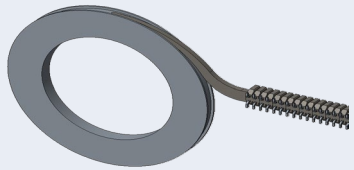
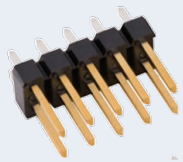
Bergstrip® header (Endless pin)

- 0.64mm square pin header in 2.54mm pitch
- Single-row & double-row product
- SMT and THT type
- Customized mating and tail length
- 3A current rating
- Full matte tin plating, Brass with 4000 Hours Tin whisker test

 **Double row THT type**	 **Single row THT type**	 **Double row SMD type**
Product drawing: 10131514 series  Adobe Acrobat Document	**Product drawing: 10142077 series**  Adobe Acrobat Document	**Product drawing: 10162181 series**  Adobe Acrobat Document
Main running part numbers: 10131514-400HWLF 10131514-400HLF	**Main running part numbers:** 10142077-400HLF	**Main running part numbers:** 10162181-400204HLF 10162181-400306HLF

Value proposition

	Endless Bergstrip® SMT	Standard BergStik® SMT
Configurations	Endless pin header packaged by reel	Loose pin header packaged by tube or tape and reel
Per pin price	Less than half of standard	Marketing price
Assembly process	High speed sticking machine(900cycle/minute)	Normal speed insertion(60cycle/minute)
Positions	No limited	Maximum position within 100
Application	Flexible to cut for any position	Change over for different position
Terminal	Wire with full area plated	Bandolier Pin with selected plating
Target Market	Automotive	Medical equipment, Military, Industry
Photo of the product		

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Thank You

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