

- High temperature plastic
- Selective plating

**24 HOUR
SAMPLES**

Technical Data

Physical

Housing: High temperature, black thermoplastic
 Flammability rating: UL 94 V-0
 Pin: Phosphor-bronze
 Plating: Gold or tin-lead over 1.27 µm nickel



Electrical Performance

Current rating: 3 A continuous
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1500 V

Mechanical Performance

Pin retention to housing:
 9 N min.

Operating Temperature Range

-65°C to +125°C

Packaging

Standard: Bags
 Optional: Tubes or
 Tape-and-reel with pick-up cap
 (SMT pin style 01 only)

Reference Information

File no. E66906
 File no. LR46923
 Product drawing: By 5-digit base part number
 Product specification: BUS-12-114
 Tape and Reel packaging data : TA 840
 Specifications subject to change without notice.

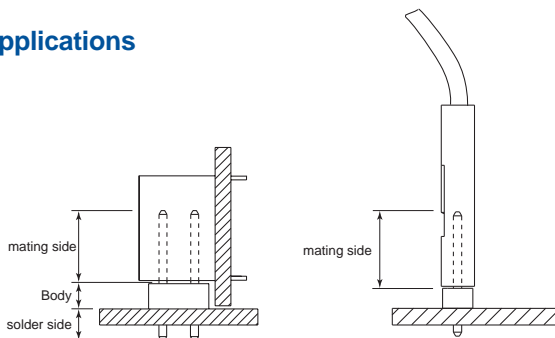
Mating Data

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■ Dubox™ Crimp-to-wire contacts	18
■ Dubox™ Crimp-to-wire housings	20
■ Dubox™ Vertical receptacles	24
■ Dubox™ Low profile vertical receptacles	26, 28
■ Dubox™ Horizontal receptacles	30
■ Quickie™ IDC receptacles	32
■ Dubox™ Shunts	36

Processing Information

Compatible with wave, vapor-phase, and IR reflow soldering processes
 Recommended IR profile TA 842 for SMT

Typical Applications



Part Number



Through mount
77311 = Single Row
77313 = Double Row

Surface mount
95293 = Single Row
95278 = Double Row
98401 = Double Row with pegs

1 = 0.76 µm gold on mating area, tin-lead on solder side
4 = 3.81 µm tin-lead
8 = 0.38 µm gold on mating area, tin-lead on solder side

01 to 36 = Single row TMT
03 to 17 = Single Row SMT
02 to 72 = Double row TMT
04 to 50 = Double Row SMT
08 to 50 = Double Row SMT with pegs

Surface mount		Through mount			
Pin style	Mating	Pin style	Mating	Solder	OAL
01	5.84	01	5.84	2.41	10.80
02	8.08	18	5.84	3.05	11.43
		02	5.84	3.42	11.80
		27	6.60	2.66	11.82
		22	7.75	3.06	13.35
		24	6.75	2.90	12.20

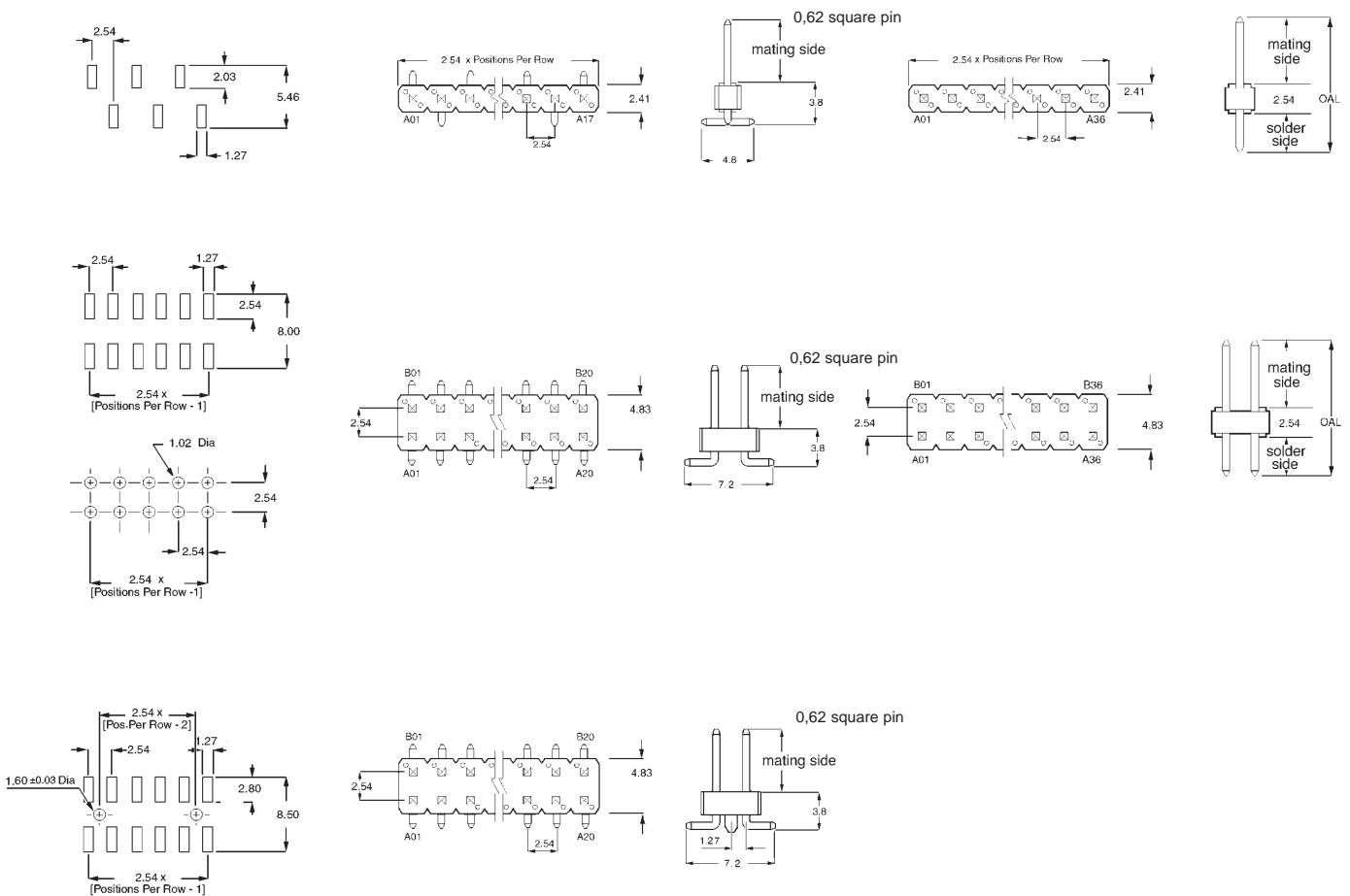
Option	Packaging
A	Tape-and-reel with pick-up cap
B	Tube with pick-up cap

options for SMT only, mating pin style 01

Part Number

77311	- 1 01 -	Total pos.
77311	- 1 18 -	Total pos.
77313	- 1 01 -	Total pos.
77313	- 1 18 -	Total pos.
95278	- 1 01 -	Total pos.

CORE RANGE

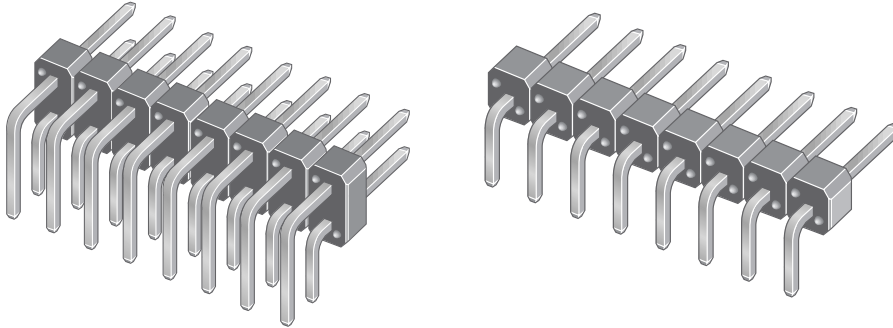


Recommended PCB Layout

Dimensions in mm




- High temperature plastic
- Selective plating



**24 HOUR
SAMPLES**

Technical Data

Physical

Housing: High temperature, black thermoplastic
 Flammability rating: UL 94 V-0 
 Pin: Phosphor-bronze
 Plating: Gold or tin-lead over 1.27 µm nickel

Electrical Performance

Current rating: 3 A continuous
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1500 V

Mechanical Performance

Pin retention to housing:
 8.88 N min.



Operating Temperature Range

-65°C to +125°C

Packaging

Bags

Reference Information

 File no. E66906
 File no. LR46923
 Product drawing: By 5-digit base part number
 Product specification: BUS-12-114
 Specifications subject to change without notice.

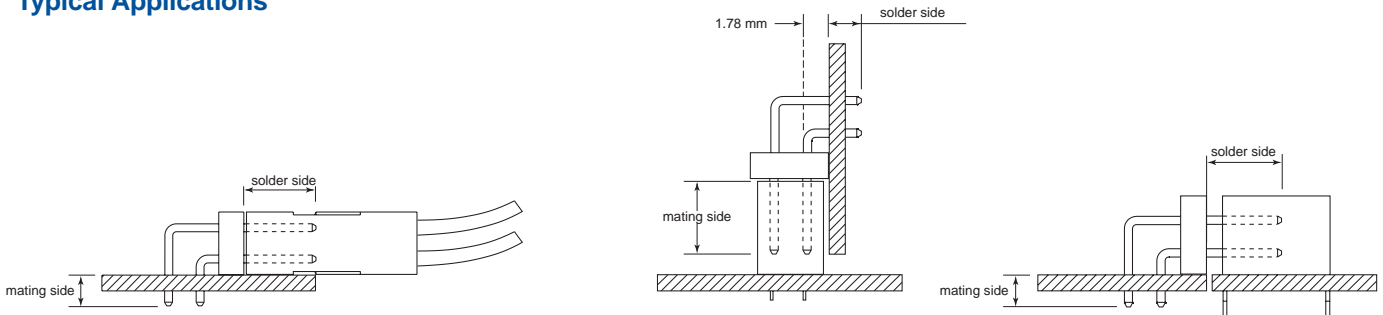
Mating Data

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■ Dubox™ Vertical receptacles	24
■ Dubox™ Low profile vertical receptacles	26, 28
■ Dubox™ Horizontal receptacles	30
■ Quickie™ IDC receptacles	32
■ Dubox™ Shunts	36

Processing Information

Compatible with wave, vapor-phase, and IR reflow soldering processes

Typical Applications



Part Number

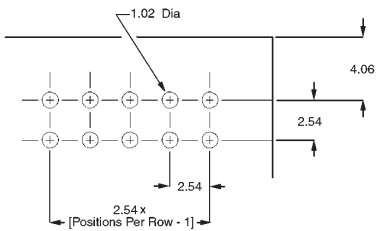
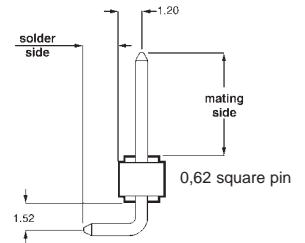
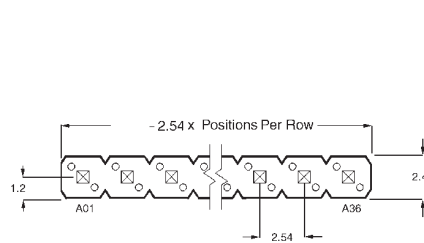


Through mount
77315 = Single Row
77317 = Double Row

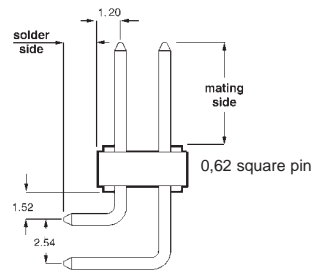
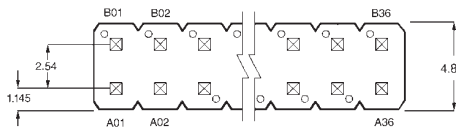
01 to 36 = Single row TMT
02 to 72 = Double row TMT

Pin style		Mating	Solder
77315	77317		
01	03	5.84	2.41
18	04	5.84	3.05
24	12	6.75	2.90

1 = 0.76 μ m gold on mating area, tin-lead on solder side
4 = 3.81 μ m tin-lead
8 = 0.38 μ m gold on mating area, tin-lead on solder side

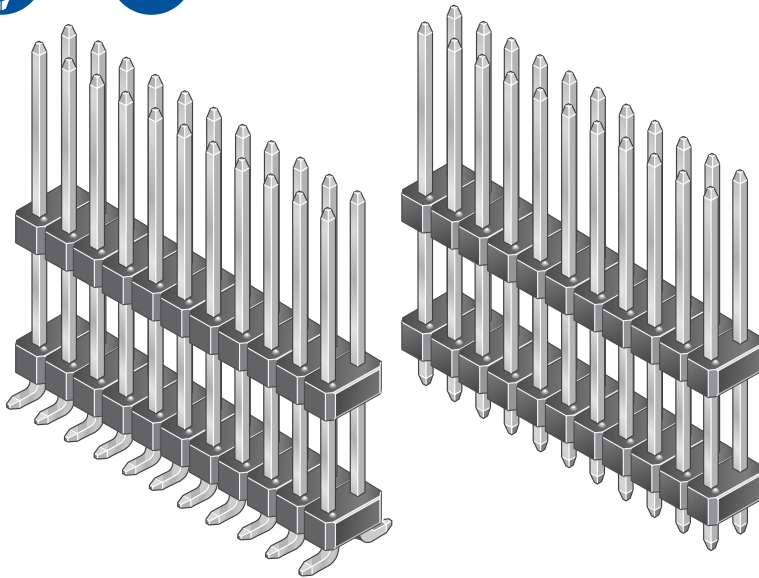


Recommended PCB Layout



Dimensions in mm

BergStik® Unshrouded Stacking Headers 2.5 mm



- Wide variety of stack heights in 0.5 mm increments
- High temperature plastic
- Selective plating

24 HOUR SAMPLES

Technical Data

Physical

Housing: High temperature, black thermoplastic
 Flammability rating: UL 94 V-0
 Pin: Phosphor-bronze
 Plating: Gold or tin-lead over 1.27 µm nickel



Electrical Performance

Current rating: 3 A continuous
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1500 V

Mechanical Performance

Pin retention to housing:
 9 N min.

Operating Temperature Range

-65°C to +125°C

Packaging

Standard: Bags

Reference Information

File no. E66906
 File no. LR46923
 Product drawing: By 5-digit base part number
 Product specification: BUS-12-114
 Specifications subject to change without notice.

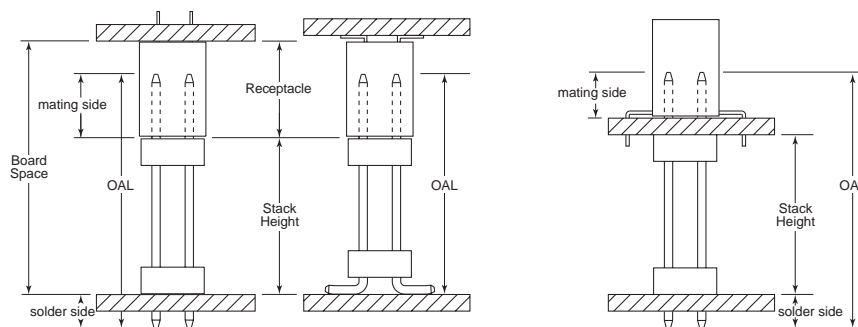
Mating Data

- Dubox™ Vertical receptacles Page 24
- Dubox™ Low profile vertical receptacles Page 26, 28

Processing Information

Compatible with wave, vapor-phase, and IR reflow soldering processes

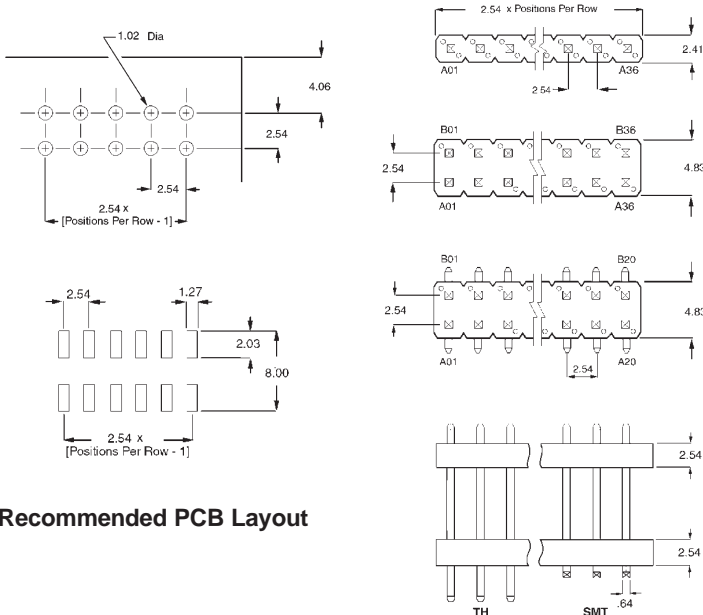
Typical Applications



Part Number

5	4	Lead	Solder Side Option	Row Option	Plating	Pin Style	Total Positions	Stack Height
		1 = Through Hole (TMT) 2 = Surface Mount (SMT)		1 = Single Row (TMT only) 2 = Double Row			01 to 36 single row (TMT) 04 to 72 double row (TMT) 04 to 50 double row (SMT)	
		1 = 2.41 2 = 3.05 4 = SMT (double row only)						XX.XX = mm Specify mm (i.e. 08.50 = 8.50 mm in 0.50 mm increments 08.00 min. - 25.00 max.)
		1 = 0.76 µm gold on mating area, tin-lead on solder side 4 = 3.81 µm tin-lead 8 = 0.38 µm gold on mating area, tin-lead on solder side						

Pin Style	OAL (TMT) mm	OAL (SMT) mm
01	12.20	10.42
02	13.50	11.72
03	15.90	14.12
04	16.76	14.98
05	17.65	15.87
06	18.91	17.13
07	20.96	19.18
08	23.50	21.72
09	26.04	24.26
10	28.58	26.80
11	31.12	29.34
12	33.66	31.88



Recommended PCB Layout

Step-by-Step Design

1. Determine desired board spacing (0.50 mm increments)
2. Select Dubox™ receptacle and calculate stack height
Stack Height = Board Spacing – Receptacle Height
3. Find the insertion depth from the chart below.
Calculate max./min. OAL
OAL = Stack Height + solder side + Insertion Depth
4. Select the Pin Style with OAL between max. and min. values

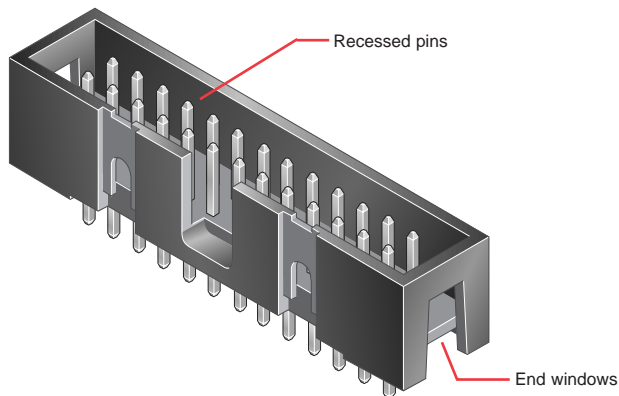
	Dubox™ RECEPTACLES	
	Low Profile	Vertical
Height	7.00	8.50
Insertion Depth (max.)	6.10	6.10
Insertion Depth (min.)	3.86	4.34

Example:

1. Application requires a board spacing of 22.50
2. Select the Dubox™ Low Profile Receptacle with height of 7.00
The Header Stack Height is 22.50 - 7.00 = 15.50
3. For standard board applications, the 3.05 solder side is selected
OAL (max.) = 15.50 + 3.05 + 6.10 = 24.65
OAL (min.) = 15.50 + 3.05 + 3.86 = 22.41
4. Select Pin Style 08 with OAL = 23.50
5. Part Number is 54122-108-72-1550

Dimensions in mm

Quickie™ Shrouded Low Profile Headers 2.54 mm



- Selective plating
- Recessed pins assure proper alignment and eliminate damage during mating
- End windows for latching with IDC receptacle

**24 HOUR
SAMPLES**

Technical Data

Physical

Housing: Glass filled, thermoplastic polyester, blue
 Flammability rating: UL 94 V-0
 Pin: Phosphor-bronze
 Plating: Gold or tin-lead over 1.27 µm nickel

Electrical Performance

Current rating: 3 A continuous
 Insulation resistance: 10,000 MΩ min.
 Dielectric withstanding voltage: 500 V min.

Mechanical Performance

Pin retention to housing: 20 N min.

Operating Temperature Range

-65°C to +125°C

Packaging

Tubes – Vertical
 Tubes – Right angle

Reference Information

File no. E66906
 File no. LR46923
 Product drawing: By 5-digit base partnumber
 Product specification: BUS-12-082
 Specifications subject to change without notice.

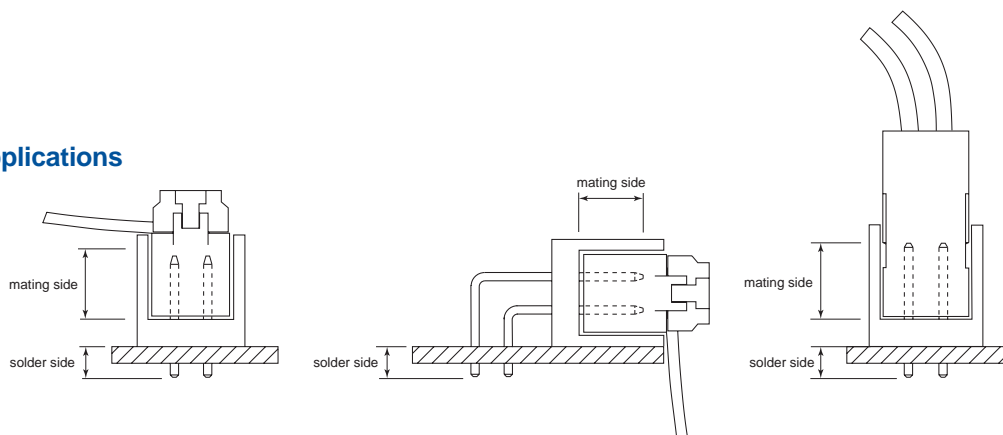
Mating Data

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Processing Information

Compatible with wave soldering processes

Typical Applications



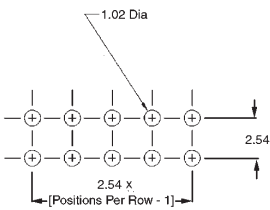
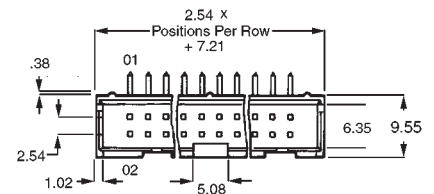
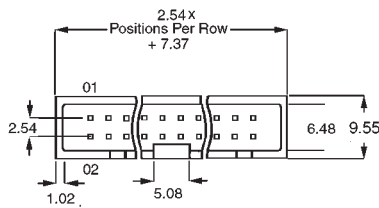
Part Number

5-Digit Base Part Number	Plating	Total Positions
Through mount 75869 = Straight 75867 = Right angle		30 = 4 pos. 31 = 6 pos. 32 = 8 pos. 01 = 10 pos. 02 = 14 pos. 03 = 16 pos. 04 = 20 pos. 05 = 26 pos. 33 = 30 pos. 06 = 34 pos. 07 = 40 pos. 08 = 50 pos. 09 = 60 pos. 10 = 64 pos.
1 = 0.76 μm gold on mating area, tin-lead on solder side 2 = 3.81 μm tin-lead 3 = 0.38 μm gold on mating area, tin-lead on solder side		

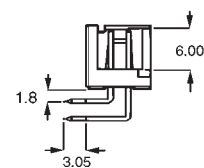
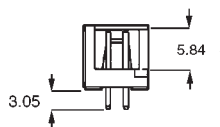
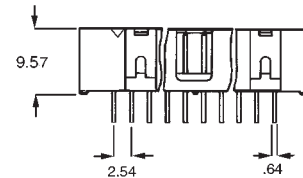
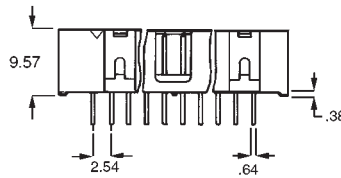
Part Number		CORE RANGE
75867	1 Positions	
75869	1 Positions	

Vertical

Right Angle



Recommended PCB Layout

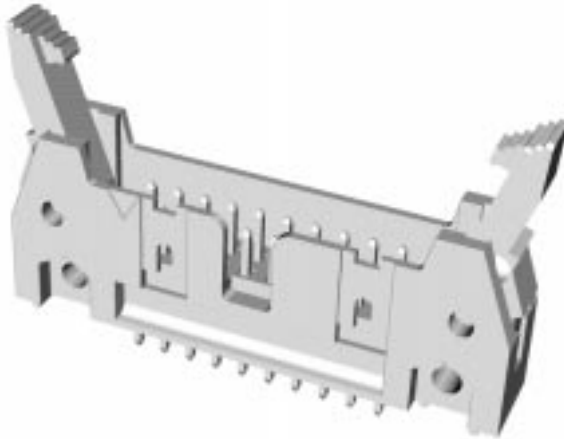


Dimensions in mm

Quickie™ Shrouded Eject Latch Headers 2.54 mm



- Selective plating
- Recessed pins assure proper alignment and eliminate damage during mating



**24 HOUR
SAMPLES**

Technical Data

Physical

Housing: Glass filled, thermoplastic polyester, gray
Flammability rating: UL 94 V-0
Pin: Phosphor-bronze
Plating: gold over 1.27 µm nickel

Electrical Performance

Current rating: 3 A continuous
Insulation resistance: 10,000 MΩ min.
Dielectric withstanding voltage: 1500 V

Mechanical Performance

Pin retention to housing: 20 N min.

Operating Temperature Range

-65°C to +125°C

Packaging

Bags – Vertical
Bags – Right angle

Reference Information

File no. E66906

File no. LR46923

Product drawing: By 5-digit base part number

Product specification: BUS-12-082

Specifications subject to change without notice.

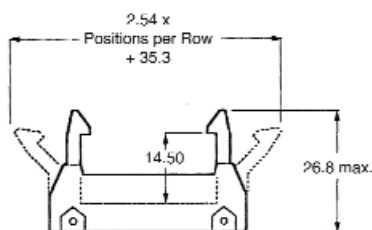
Mating Data

	Page
■ Dubox™ Crimp-to-wire contacts	18
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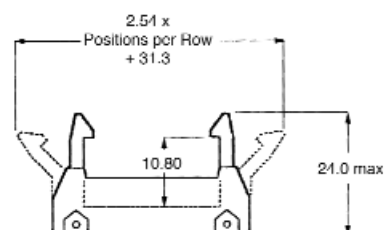
Processing Information

Compatible with wave soldering processes

Latching Styles



Standard Latch (Style 1)



Low Profile Latch (Style 2)

Part Number

5-Digit Base Part Number

Latch Style

Total Positions

Through mount
71918 = Straight
71922 = Right angle

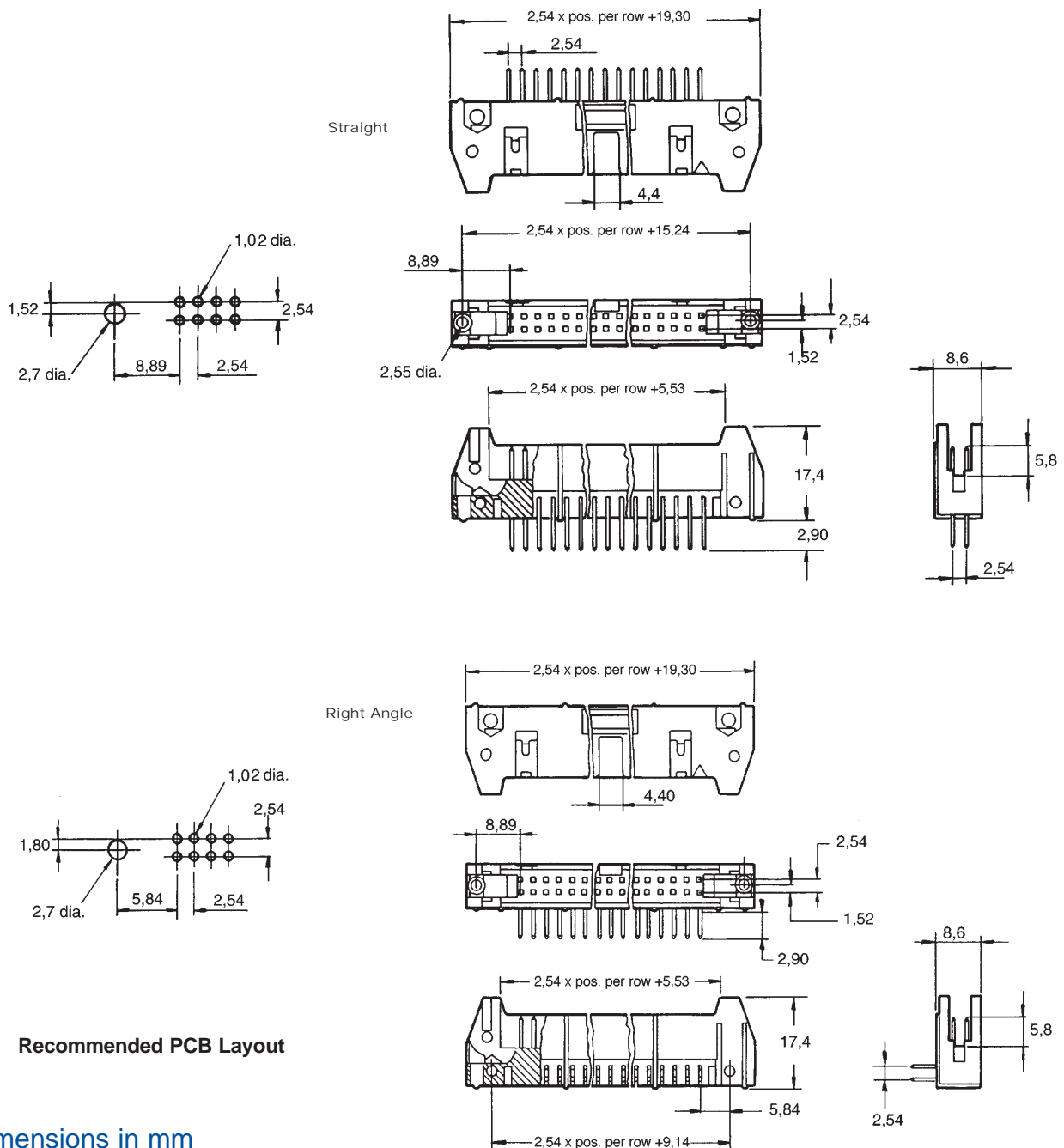
1 = Standard (mates with IDC Receptacle Strain Relief 0,2
2 = Low Profile (mates with IDC Receptacle without Strain Relief

06, 08, 10, 14, 16, 18, 20, 26,
30, 34, 40, 44, 50, 60, 64

Plating = 0.76 µm gold on mating area, tin-lead on solder side

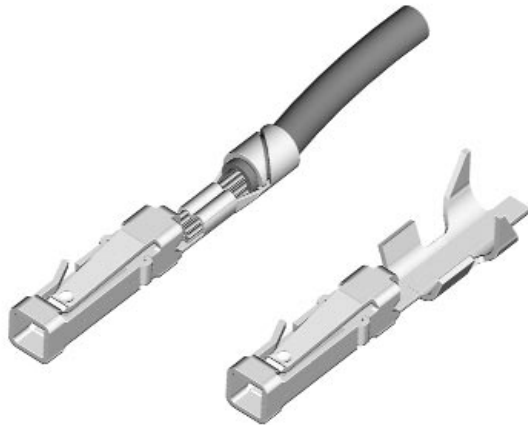
Part Number		
71918	- 1	Total Pos.
71922	- 1	Total Pos.

CORE RANGE



Dimensions in mm

Dubox™ Crimp-to-Wire Contacts 2.54 mm



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force.
- Mates with very short pins (5 mm)
- Universal crimp barrel accomodates wires from AWG 22-30
- Selective plating

**24 HOUR
SAMPLES**

Technical Data

Physical

Contact: phosphor bronze
Plating: 0.76µm Gold over 1.27 µm nickel
5.0 µm tin-lead

Electrical Performance

Current rating: 3 A continuous
Contact resistance after environmental test:
15 mΩ max. – Contact
Dielectric withstanding voltage: 1000 V rms

Mechanical Performance

Mating cycles (durability): 200 – Gold
Insertion force gold finish contact: 1.3 N
Withdrawal force (min) gold finish contact: 0.3 N

Operating Temperature Range

-65°C to +125°C

Packaging

Reels
Boxes – Loose piece

Reference Information

File no. E66906
 File no. LR46923
Product drawing: By 5-digit base part number
Product specification: BUS-12-055 – Contact
Application specification: TA-317, TA-340
Specifications subject to change without notice.

Mating Data

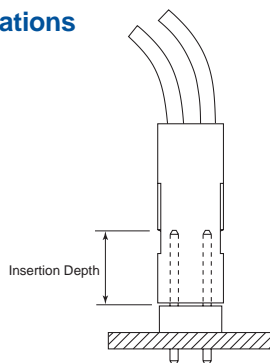
Page

- BergStik® unshrouded straight headers 8
- BergStik® unshrouded right angle headers 10
- Dubox™ shrouded vert./ra. headers 22

Insertion Depth

- Discrete Wire: 3.56 mm min. to 5.59 mm max.
[provides .381 mm wipe]
- Crimp-to-Wire Housing: 5.08 mm min.
to 6.22 mm max.
[provides .381 mm wipe in housing]

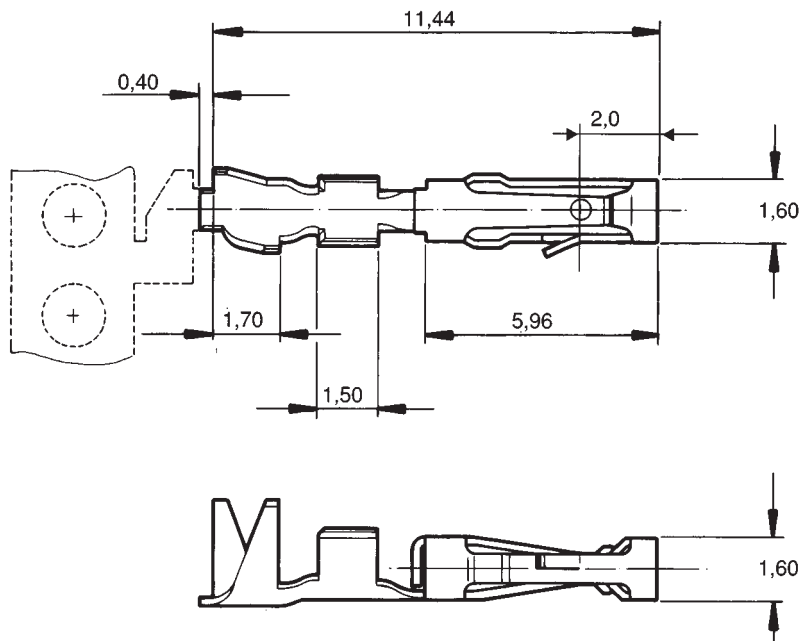
Typical Applications



Part numbers / Contacts on Reel				
Wire size	insulation O.D.	Selective Plated	Tin-lead plated	Packaging
22-30	0.90 - 1.50	76347-301	76347-401	15.000/reel
22-30	0.90 - 1.50	76347-302•	76347-402•	15.000/reel
22-30	0.90 - 1.50	76347-303	76347-403	500/reel
20-22	1.10 - 1.60	76347-311	76347-411	15.000/reel
20-22	1.10 - 1.60	76347-312•	76347-412•	15.000/reel

Part numbers / Contacts loose Piece				
Wire size	insulation O.D.	Selective Plated	Tin-lead plated	Packaging
22-30	0.90 - 1.50	76357-301	76357-401	1000/box

Notes: • = reeled for application machine with left-to-right feeding



Contacts to be used with housing = 65239-xxx / 65240-xxx

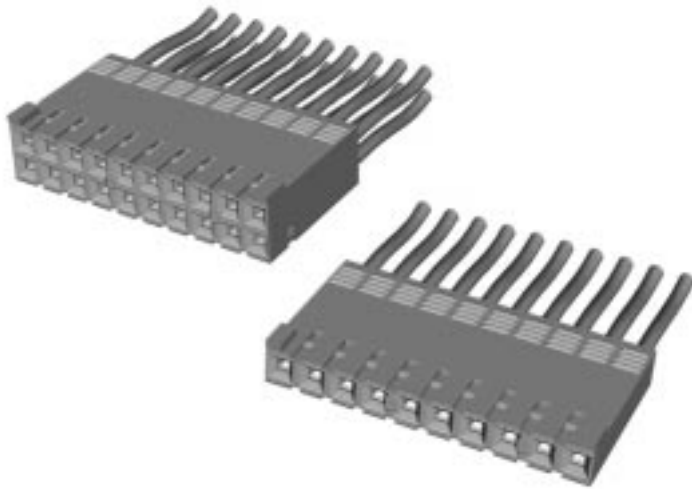
Wire strip length = 3,00 ± 0,25 mm

Mating pin size = 0,62 mm square

Mating pin recommended length = 5,00 mm min.

Dimensions in mm

Dubox™ Crimp-to-Wire Housing 2.54 mm



- For use with Dubox™ crimp-to-wire contacts
- Stackable end-to-end
- Passive latching, anti-reverse and anti-miss-match when used with Dubox™ shrouded headers
- Contacts removable for easy repairability

**24 HOUR
SAMPLES**

Technical Data

Physical

Housing: Glass filled thermoplastic polyester, blue
Flammability rating: UL 94 V-0

Electrical Performance

Insulation resistance: 1×10^5 M Ω min.
Dielectric withstanding voltage: 1000 V rms


Operating Temperature Range


-65°C to +125°C

Packaging

Bulk

Reference Information

 File no. E66906

 File no. LR46923

Product drawing: By 5-digit base part number

Application specification: TA-317 / TA-340

Specifications subject to change without notice.

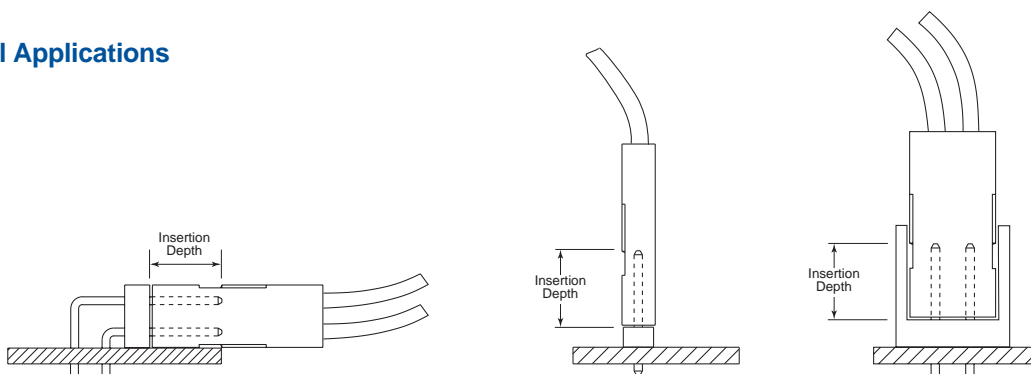
Mating Data

- | | Page |
|--|------|
| ■ BergStik® Unshrouded straight headers | 8 |
| ■ BergStik® Unshrouded right angle headers | 10 |
| ■ Dubox™ Shrouded headers | 22 |

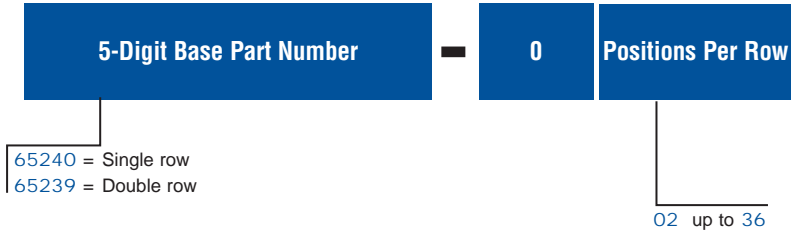
Insertion Depth

- 4.0 mm min. to 6.0 mm max.

Typical Applications

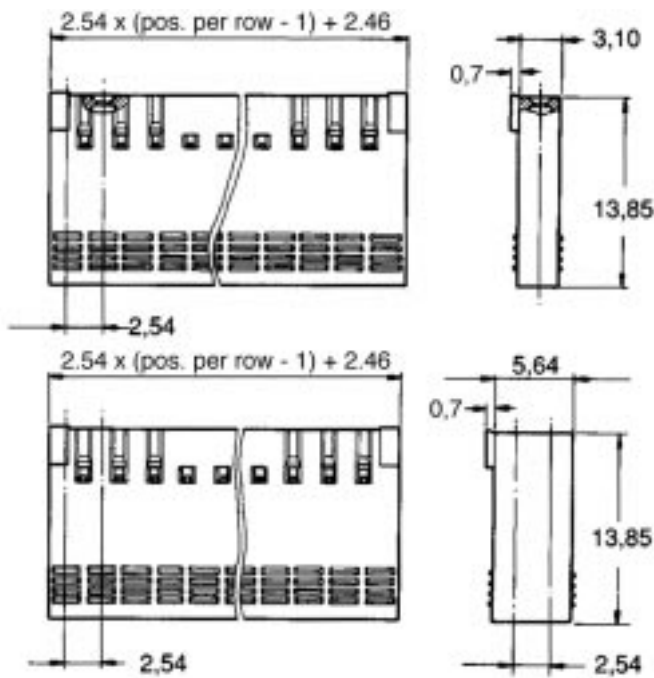


Part Number



Part Number		
65239	0	Pos. per row
65240	0	Pos. per row

CORE RANGE



- Pin size: 0.62 mm square
- Recommended pin length: 5.00 mm min.

Dimensions in mm

Dubox™ Shrouded Headers 2.54 mm



- For use with Dubox™ crimp-to-wire housings
- Stackable end-to-end
- Passive latching, anti-reverse and anti-miss-match when used with Dubox™ crimp-to-wire housings
- Selective plating

**24 HOUR
SAMPLES**

Technical Data

Physical

Housing: Glass filled thermoplastic polyester, blue
Flammability rating: UL 94 V-0
Contact: Phosphor-bronze
Plating: Gold or tin-lead over 1.27 µm nickel

Electrical Performance

Current rating: 3 A continuous
Insulation resistance: 1×10^5 MΩ min.
Dielectric withstanding voltage: 1000 V rms

Mechanical Performance

Contact retention to housing:
20 N min.


Operating Temperature Range


-40°C to +125°C

Packaging

Tube

Reference Information

 File no. E66906

 File no. LR46923

Product drawing: By 5-digit base part number

Application specification: TA-531

Specifications subject to change without notice.

Mating Data

	Page
■ Dubox™ Crimp-to-wire contacts	18
■ Dubox™ Crimp-to-wire housings	20

Processing Information

Compatible with wave soldering processes

Part Number



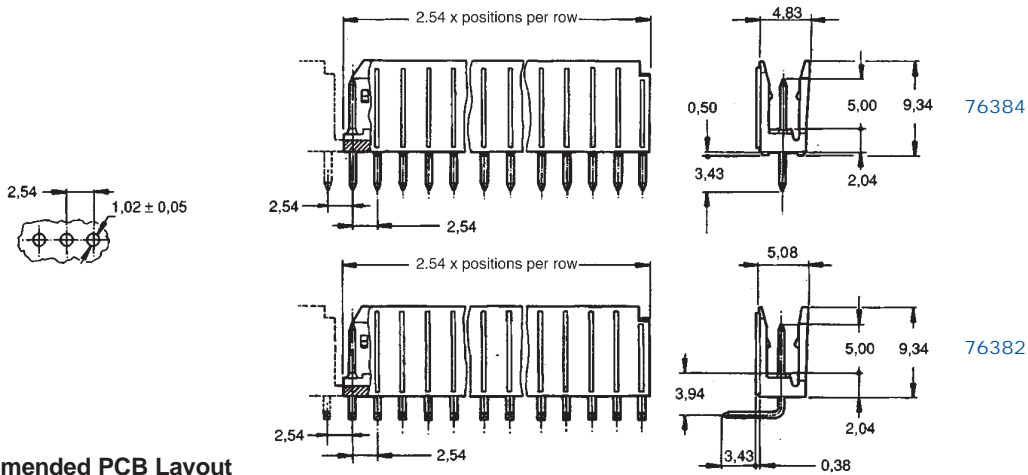
- 76384 = Single row, straight
- 76382 = Single row, right angle
- 76385 = Double row, straight
- 76383 = Double row, right angle

02 up to 36

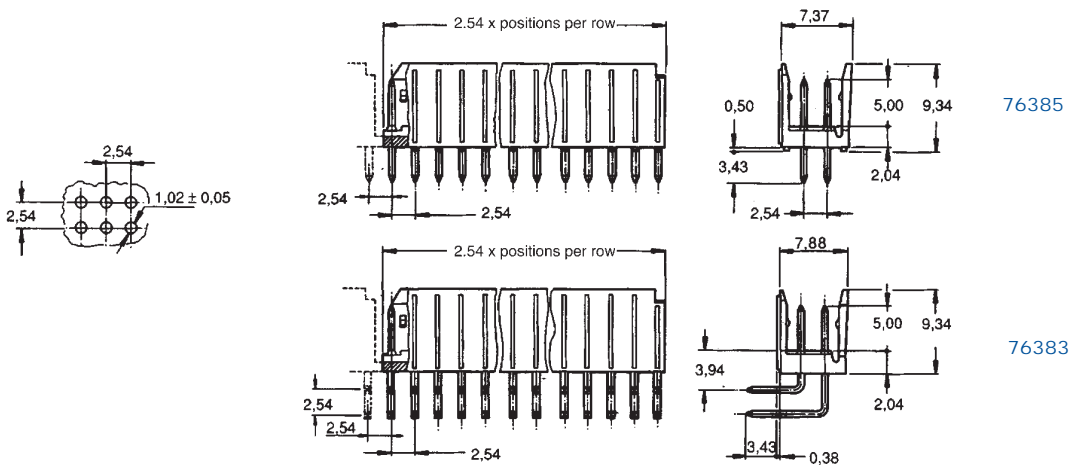
- 3 = 0.76 μm gold on mating area, tin-lead on solder side
- 4 = 3.81 μm tin-lead

Part Number		
76384	- 3	Pos. per row
76385	- 3	Pos. per row

CORE RANGE



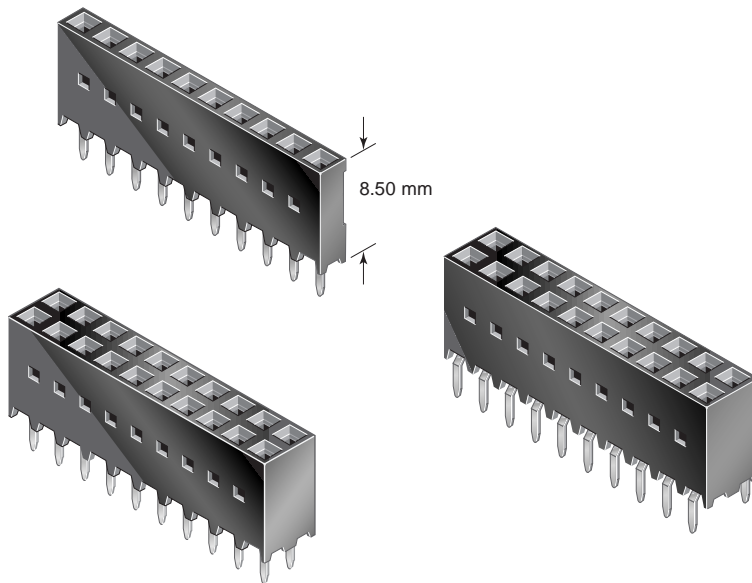
**Recommended PCB Layout
PCB thickness 1,58 mm**



Dimensions in mm

Dubox™ Vertical Receptacles

2.54 mm



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- Selective plating

24 HOUR SAMPLES

Technical Data

Physical

Housing: Glass filled thermoplastic polyester, blue
 Flammability rating: UL 94 V-0
 Contact: Phosphor-bronze
 Plating: Gold or tin-lead in accordance with IEC 603-8

Electrical Performance

Current rating:
 3 A dc max. per individual contact
 2 A dc max. per contact for fully energized connector
 Insulation resistance: 1×10^5 M Ω min.
 Contact resistance: 15 m Ω max. initial, 20 m Ω max. after environmental tests
 Dielectric withstanding voltage: 1000 V rms

Mechanical Performance

Mating cycles (durability): 200
 Insertion force per gold contact: 1.50 N (150 gf) max.
 Withdrawal force per gold contact: 0.30 N (30 gf) min.

Operating Temperature Range

-65°C to +125°C

Packaging

Plastic boxes or tubes

Reference Information

File no. E66906
 File no. LR46923
 Product drawing: By 5-digit base part number
 Product specification: HE 13/14 and IEC 603-8
Specifications subject to change without notice.

Mating Data

	Page
■ BergStik® Unshrouded straight headers	8
■ BergStik® Unshrouded right angle headers	10
■ BergStik® Unshrouded stacking headers	12

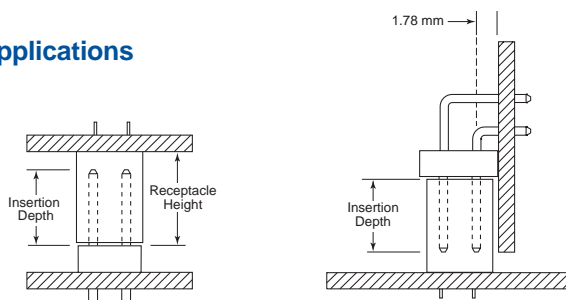
Insertion Depth

- Top Entry: 5.03 mm min. to 6.81 mm max. [provides .381 mm wipe]
- Bottom Entry: 6.25 mm min. [provides .381 mm wipe] plus board thickness

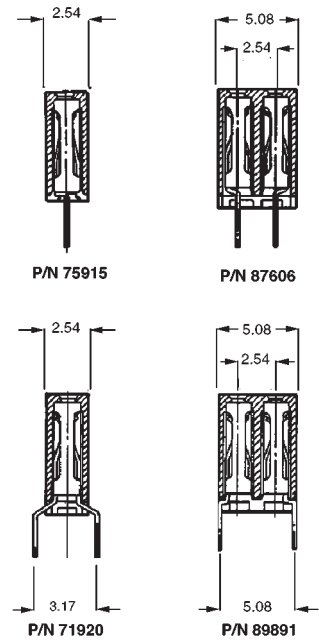
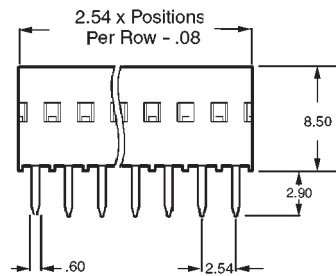
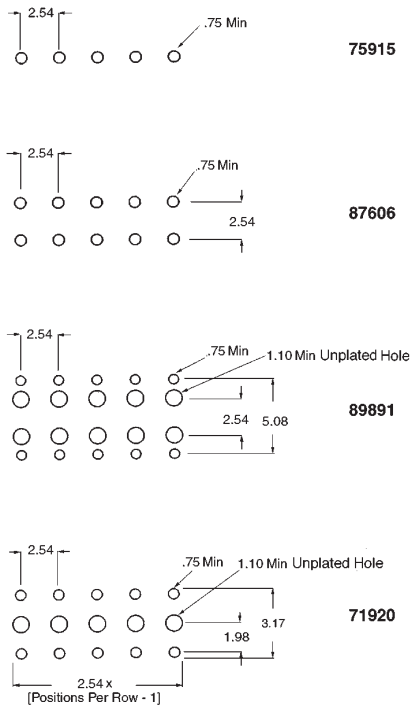
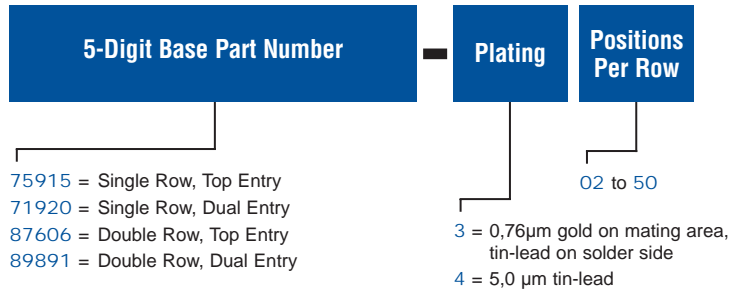
Processing Information

Compatible with wave soldering processes

Typical Applications



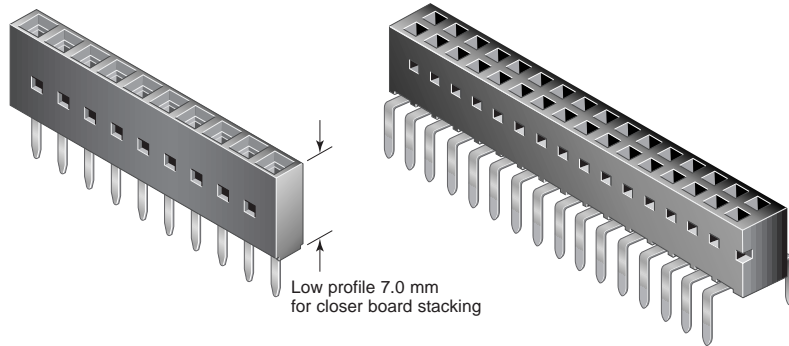
Part Number



Recommended PCB Layout

Dimensions in mm

Dubox™ Low Profile Vertical Receptacles 2.54 mm



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- Selective plating

**24 HOUR
SAMPLES**

Technical Data

Physical

Housing: Glass filled thermoplastic
 Flammability rating: UL 94 V-0
 Contact: Phosphor-bronze
 Plating: Gold or tin-lead over 1.27 µm nickel

Electrical Performance

Current rating:
 3 A dc max. per individual contact
 2 A dc max. per contact for fully energized connector
 Insulation resistance: 1×10^5 MΩ min.
 Contact resistance: 15 mΩ max. initial, 20 mΩ max. after environmental tests
 Dielectric withstanding voltage: 1000 V rms

Mechanical Performance

Mating cycles (durability): 200
 Insertion force per gold contact: 1.50 N (150 gf) avg.
 Withdrawal force per gold contact: 0.30 N (30 gf) min.

Operating Temperature Range

-65°C to +125°C

Packaging

Plastic boxes or tubes

Reference Information

File no. E66906
 File no. LR46923
 Product drawing: By 5-digit base part number
 Product specification: BUS-12-055
Specifications subject to change without notice.

Mating Data

	Page
■ BergStik® Unshrouded straight headers	8
■ BergStik® Unshrouded right angle headers	10
■ BergStik® Unshrouded stacking headers	12

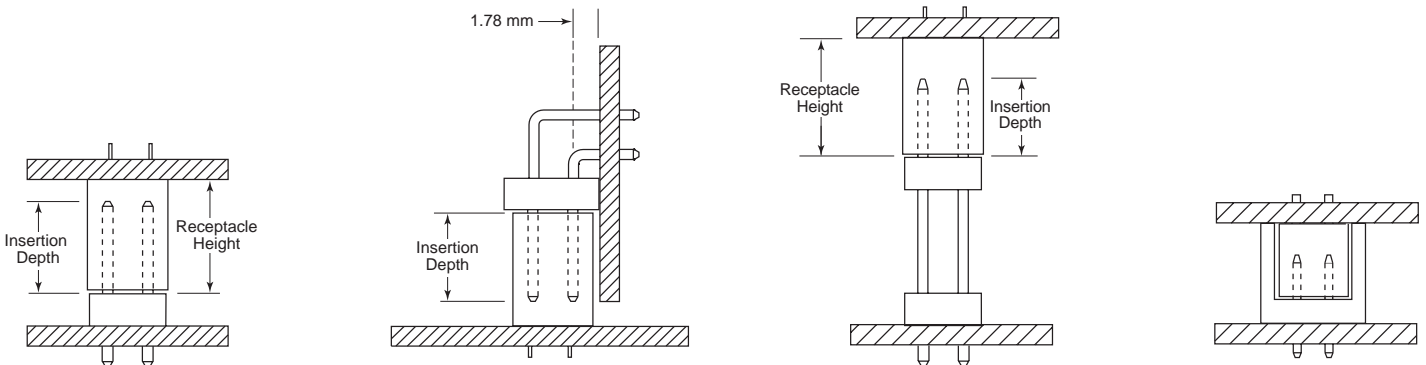
Insertion Depth

- Top Entry: 3.86 mm min. to 6.10 mm max. [provides .381 mm wipe]
- Bottom Entry: 5.08 mm min. [provides .381 mm wipe] plus board thickness

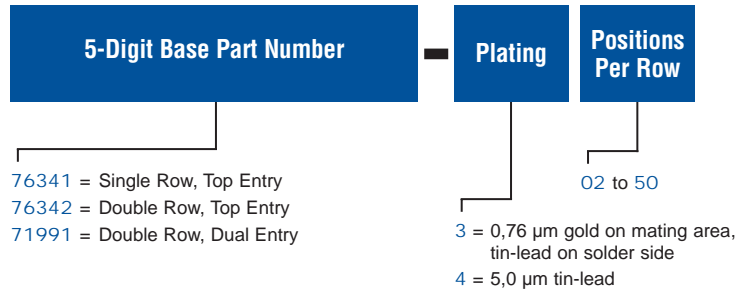
Processing Information

Compatible with wave soldering processes

Typical Applications

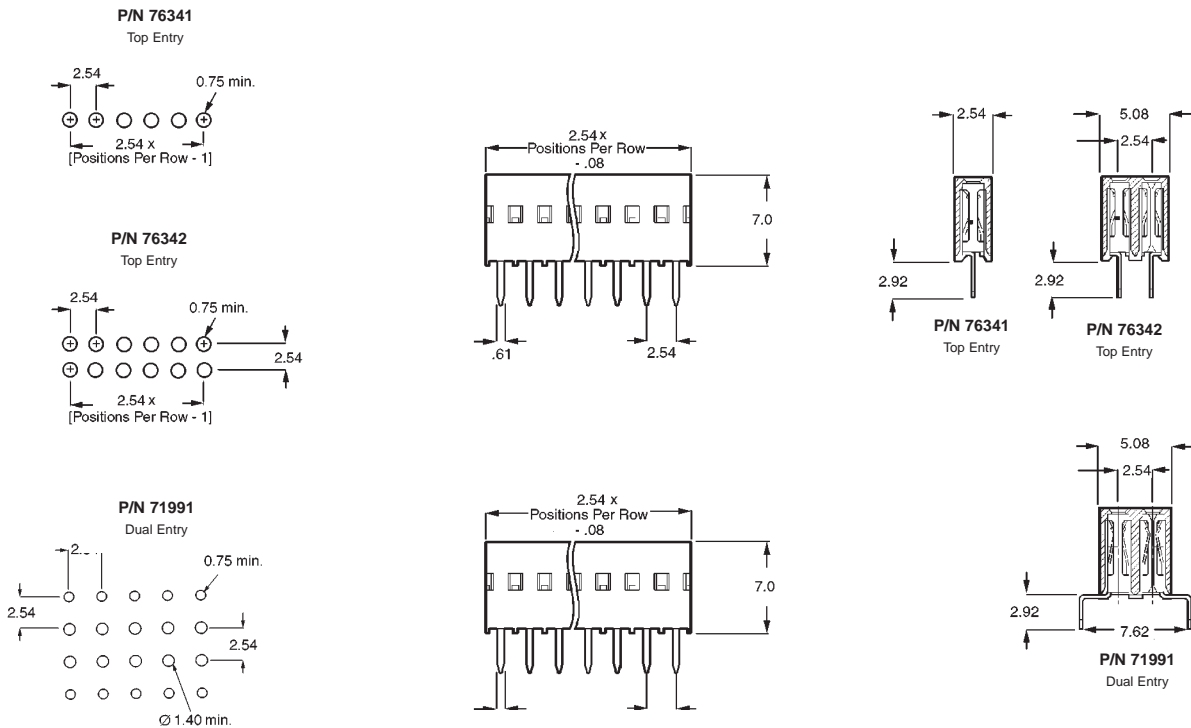


Part Number



Part Number		
71991	3	Pos. per row
76341	3	Pos. per row
76342	3	Pos. per row

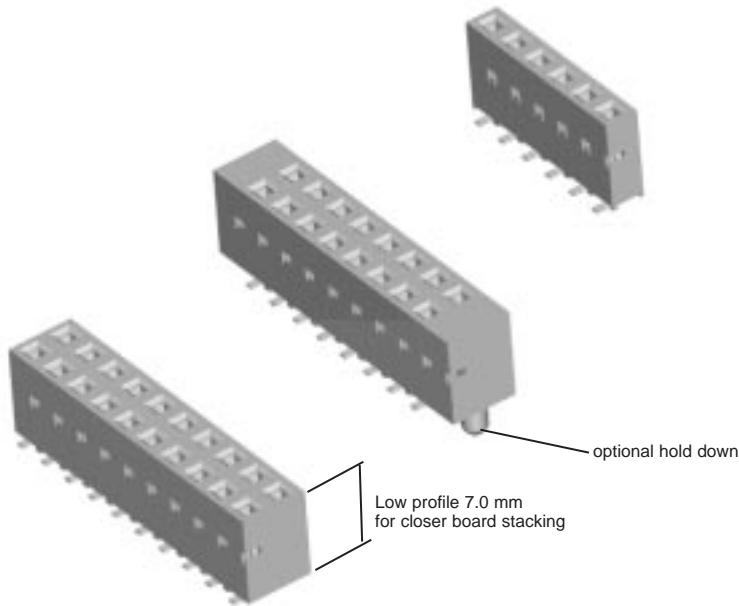
CORE RANGE



Recommended PCB Layout

Dimensions in mm

Dubox™ Low Profile Vertical Receptacles 2.54 mm



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- Selective plating
- Floating solder tails self-center on circuit pads and assure coplanarity

**24 HOUR
SAMPLES**

Technical Data

Physical

Housing: High-temperature, grey thermoplastic
 Flammability rating: UL 94 V-0
 Contact: Phosphor-bronze
 Plating: Gold or tin-lead over 1.27 µm nickel



Electrical Performance

Current rating:
 3 A dc max. per individual contact
 2 A dc max. per contact for fully energized connector
 Insulation resistance: 1x 10⁵ MΩ min.
 Contact resistance: 15 mΩ max. initial, 20 mΩ max. after environmental tests
 Dielectric withstanding voltage: 1000 V rms

Mechanical Performance

Mating cycles (durability): 200
 Insertion force per gold contact: 1.50 N (150 gf) avg.
 Withdrawal force per gold contact: 0.30 N (30 gf) min.

Operating Temperature Range

-65°C to +125°C

Packaging

Tubes, Tape on Reel or plastic boxes

Reference Information

File no. E66906
 File no. LR46923
 Product drawing: By 5-digit base part number
 Product specification: BUS-12-055
 Tape and Reel packaging data : TA-856
 Specifications subject to change without notice.

Mating Data

	Page
■ BergStik® Unshrouded straight headers	8
■ BergStik® Unshrouded right angle headers	10
■ BergStik® Unshrouded stacking headers	12

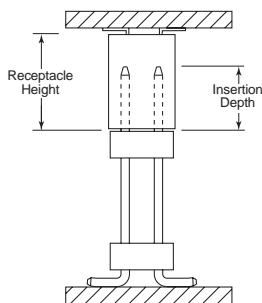
Insertion Depth

- Top Entry: 3.86 mm min. to 6.10 mm max. [provides .381 mm wipe]
- Bottom Entry: 5.08 mm min. [provides .381 mm wipe] plus board thickness

Processing Information

Compatible with wave, vapor-phase, and IR reflow soldering processes
 Recommended IR profile: TA-842

Typical Applications



Part Number

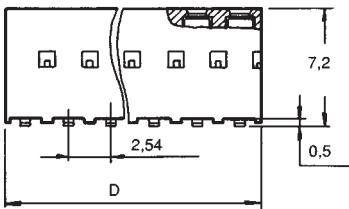
5-Digit Base Part Number	Plating	Positions Per Row	Option
91601 = Single Row, Dual Entry 91614 = Single Row with external Hold Downs, Dual Entry 89898 = Double Row, Dual Entry 91615 = Double Row with External Hold Downs, Dual Entry 91618 = Double Row with Internal Hold Downs, Dual Entry			A = Tape-and-Reel packaging with pick-up cap B = Tube packaging with pick-up cap (except for partnumber 91601) 02 to 25 Single Row 02 to 25 Double Row

Part Number		Pos. per row
89898	3	Pos. per row
91601	3	Pos. per row

CORE RANGE

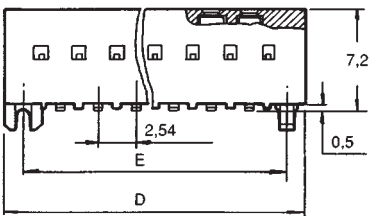
3 = 0,76 µm gold on mating area, tin-lead on solder side
 4 = 5,0 µm tin-lead

Standard



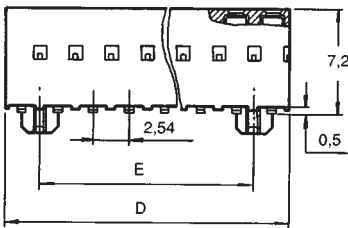
$D = (\text{no. of pos. per row} \times 2,54) - 0,08$

External Hold Downs



$D = (\text{no. of pos. per row} \times 2,54) + 5$
 $E = (\text{no. of pos. per row} \times 2,54) + 2,54$

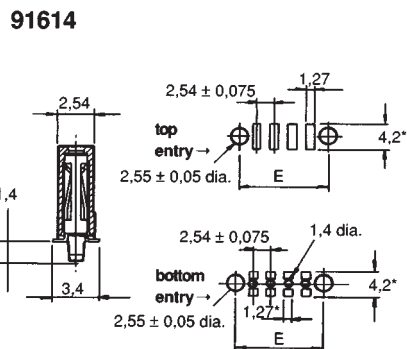
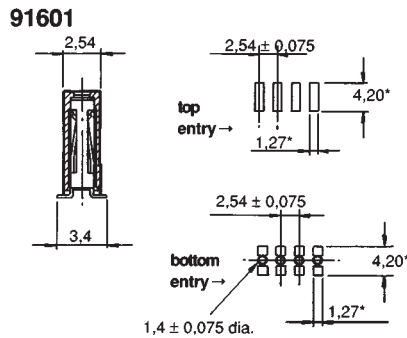
Internal Hold Downs



$D = (\text{no. of pos. per row} \times 2,54) - 0,08$
 $E = (\text{no. of pos. per row} \times 2,54) - 5,00$

Dimensions in mm

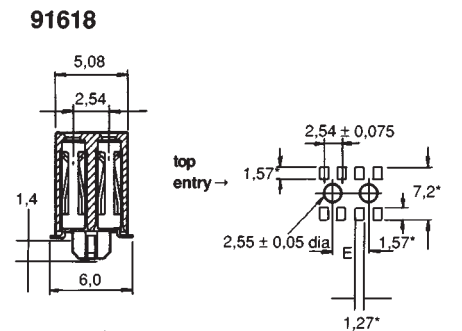
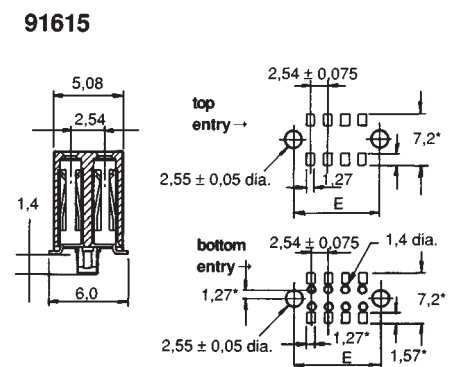
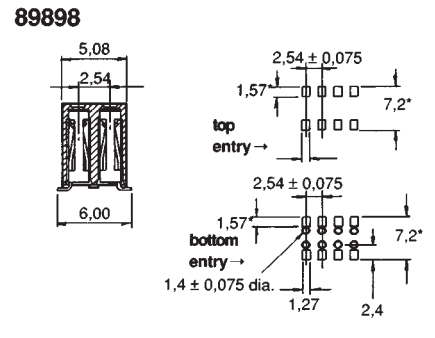
Single Row + Pad lay-outs



not available in single row

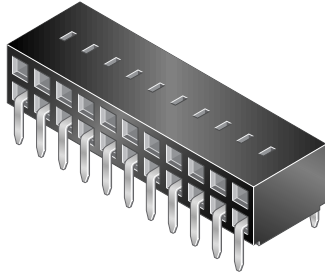
Note:
All dimensions marked with * are minimum dimensions.

Double Row + Pad lay-outs



Dubox™ Horizontal Receptacles

2.54 mm



- The Dubox™ contact has a pre-stressed, dual beam design to enable low insertion force
- Selective plating
- Floating solder tails self-center on circuit pads and assure coplanarity

24 HOUR SAMPLES

Technical Data

Physical

Housing: Blue thermoplastic – Through hole
 High temperature gray thermoplastic – Surface mount
 Flammability rating: UL 94 V-0
 Contact: Phosphor-bronze
 Plating: Gold or tin-lead over 1.27 µm nickel



Electrical Performance

Current rating:
 3 A dc max. per individual contact
 2 A dc max. per contact for fully energized connector
 Insulation resistance: 1x 10⁵ MΩ min.
 Contact resistance: 15 mΩ max. initial, 20 mΩ max. after environmental tests
 Dielectric withstanding voltage: 1000 V

Mechanical Performance

Mating cycles (durability): 200
 Insertion force per gold contact: 1.50 N (150 gf)
 Withdrawal force per gold contact: 0.30 N (30 gf)

Operating Temperature Range

-65°C to +125°C

Packaging

Standard: Tubes
 Optional: Tape-and-reel

Reference Information

File no. E66906
 File no. LR46923
 Product drawing: 71607, 71609, 89882, 89883
 Product specification: HE 13/14 and IEC 603-8
 Application specification: TA-842 for SMT
 Tape and Reel packaging data : TA 840
Specifications subject to change without notice.

Mating Data

- BergStik® Unshrouded straight headers **Page 8**
- BergStik® Unshrouded right angle headers **Page 10**

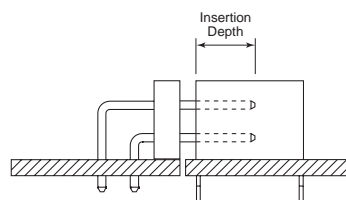
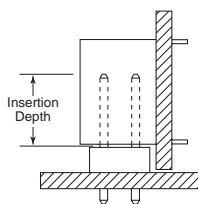
Insertion Depth

- 5.00 mm min. to 7.50 mm max. [provides .381 mm wipe]

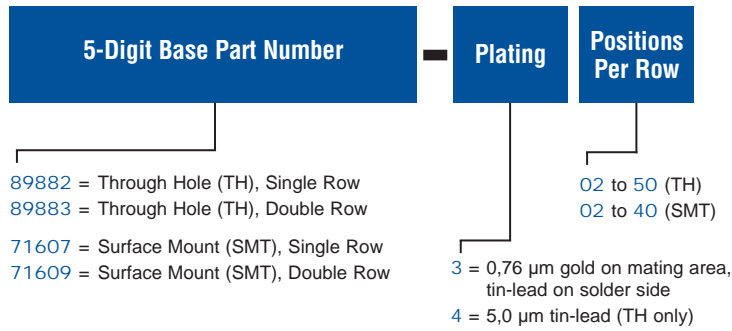
Processing Information

Compatible with wave, vapor-phase, and IR reflow soldering processes – Surface mount

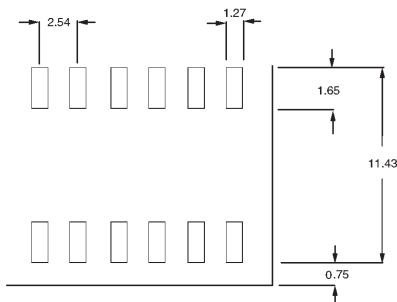
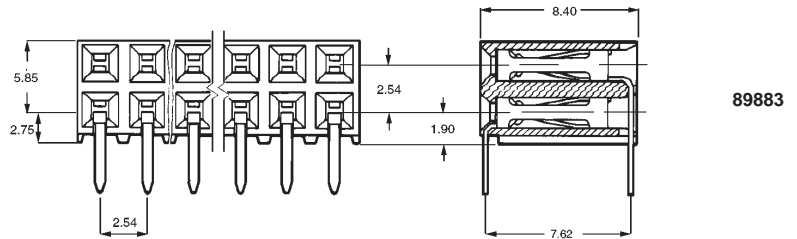
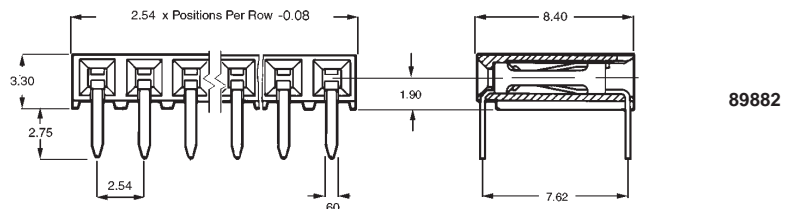
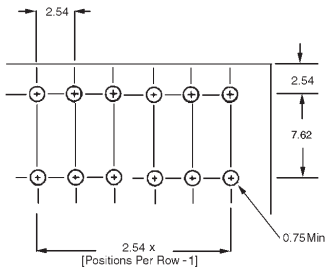
Typical Applications



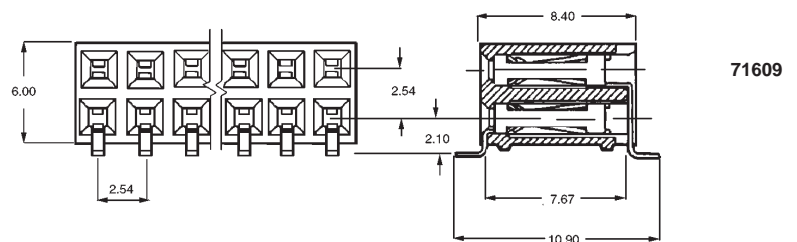
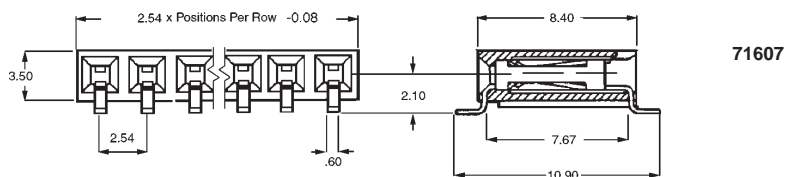
Part Number



Part Number		CORE RANGE
71609	3 Pos. per row	
89883	3 Pos. per row	

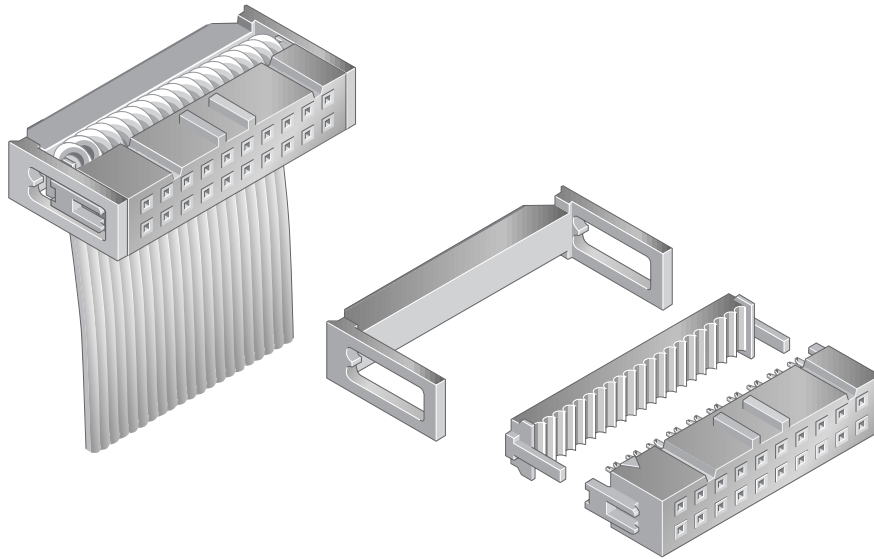


Recommended PCB Layout



Dimensions in mm

Quickie™ IDC Receptacles 2.54 mm



- Single-piece design provides one of the lowest applied costs in the industry

**24 HOUR
SAMPLES**

IDC Receptacles

Technical Data

Physical

Housing: Gray thermoplastic
Flammability rating: UL 94 V-0
Contact: Phosphor-bronze
Plating: 0.76 µm Gold over 1.27 µm nickel

Electrical Performance

Current rating: 1 A continuous
Insulation resistance: 50,000 MΩ min.
Contact resistance: 15 mΩ max.
Dielectric withstanding voltage:
1000 V min. rms (sea level)

Mechanical Performance

Mating cycles (durability): 100


Operating Temperature


-65°C to +105°C

Packaging

Tubes

Reference Information

 File no. E66906

 File no. LR46923

Product drawing: By 5-digit base part number

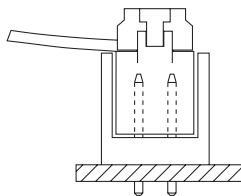
Product specification: BUS-12-095

Specifications subject to change without notice.

Mating Data

	Page
■ BergStik® Unshrouded straight headers	8
■ Quickie™ Shrouded low profile headers	14
■ Quickie™ Shrouded eject latch headers	16

Typical Applications



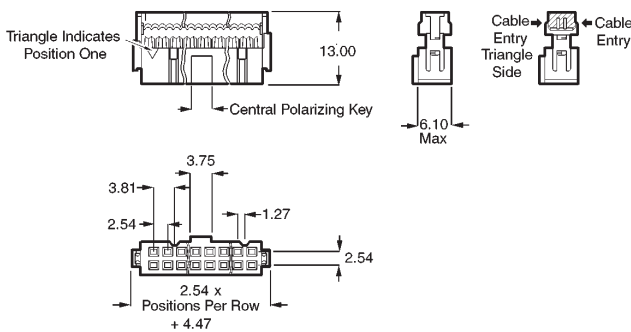
Part Number



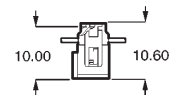
04, 06, 08, 10, 14, 16, 18 20, 24, 26,
30, 34, 40, 44, 50, 60, 64

- 0 = Standard (Mates with Shrouded Eject Latch Header Latch 1)
- 1 = None (Mates with Shrouded Eject Latch Header Latch 2)
- 2 = Low Profile (Mates with Shrouded Eject Latch Header Latch 1)
- 6 = Latching (Mates with Low Profile Headers)

Part Number		
71600	0	Total pos.
71600	1	Total pos.

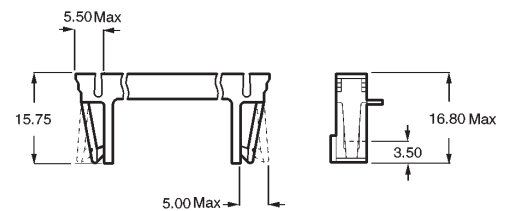
Without Strain Relief



Standard Strain Relief



Latching Strain Relief For Low Profile Header

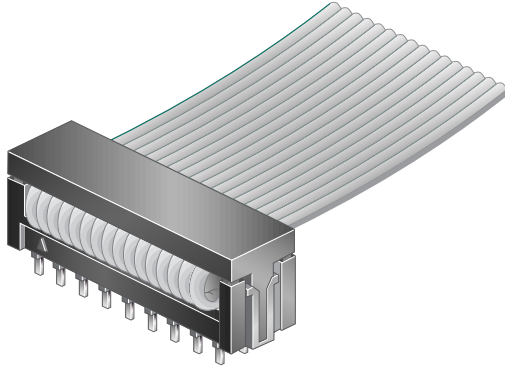


Low Profile Strain Relief



Dimensions in mm

Quickie™ IDC 2-Row PCB Connectors 2.54 mm



- Ideal for daisy chain applications
- Single-piece design provides one of the lowest applied costs in the industry

**24 HOUR
SAMPLES**

Technical Data

Physical

Housing: Blue thermoplastic
Flammability rating: UL 94 V-0
Pin: Phosphor-bronze
Plating: Tin-lead over 1.27 µm nickel

Electrical Performance

Current rating: 1 A continuous
Insulation resistance: 50,000 MΩ min.
Contact resistance: 15 mΩ max.
Dielectric withstanding voltage: 1000 V min.


Operating Temperature


-65°C to +105°C

Packaging

Tubes

Reference Information

 File no. E66906

 File no. LR46923

Product drawing: By 5-digit base part number

Product specification: BUS-12-067

Specifications subject to change without notice.

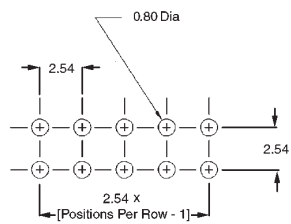
Processing Information

Compatible with wave and vapor-phase soldering processes – Low temperature

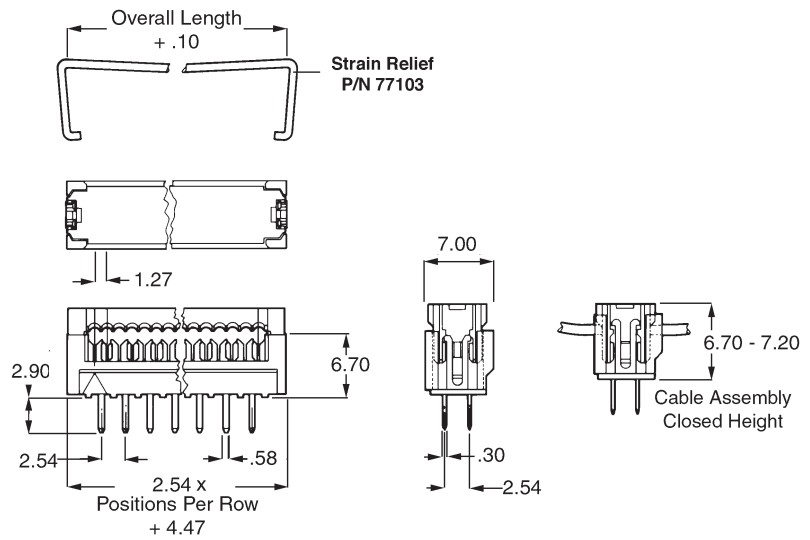
Part Number



- | | | |
|--------------|--------------|--------------|
| 06 = 6 pos. | 18 = 18 pos. | 34 = 34 pos. |
| 08 = 8 pos. | 20 = 20 pos. | 40 = 40 pos. |
| 10 = 10 pos. | 24 = 24 pos. | 50 = 50 pos. |
| 14 = 14 pos. | 26 = 26 pos. | 60 = 60 pos. |
| 16 = 16 pos. | 30 = 30 pos. | 64 = 64 pos. |

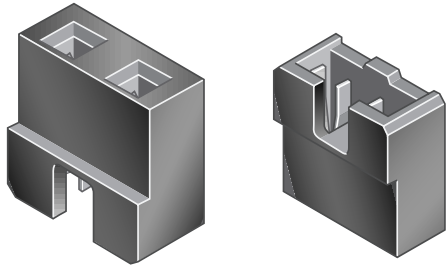


Recommended PCB Layout



Dimensions in mm

- Dual-beam contacts for added reliability
- Slotted cut-out in low profile housing simplifies electrical testing
- Side-by-side and end-to-end stackable



**24 HOUR
SAMPLES**

Technical Data

Physical

Housing:
Glass filled thermoplastic polyester
Blue or black
Flammability rating: UL 94 V-0
Pin: Phosphor-bronze
Plating: Gold or tin-lead over
1.27 µm nickel

Electrical Performance

Current rating: 3 A max. per contact
Insulation resistance: 1×10^5 MΩ min.
Contact resistance: 15 mΩ max. initial,
20 mΩ max. after environmental tests
Dielectric withstanding voltage: 800 V

Mechanical Performance

Mating cycles (durability): 50 – Gold
25 – Tin-lead
Insertion force:
3.0 N (300 gf) max. per gold contact
4.5 N (450 gf) max. per tin-lead contact
Withdrawal force:
1.5 N (150 gf) min. per gold contact
2.0 N (200 gf) min. per tin-lead contact



Operating Temperature

-65°C to +125°C

Packaging

Bulk

Reference Information

File no. E66906

File no. LR46923

Product drawing: By 5-digit base number

Mating Data

	Page
■ BergStik® Unshrouded vertical headers	8
■ BergStik® Unshrouded right angle headers	10
■ BergStik® Unshrouded stacking headers	12

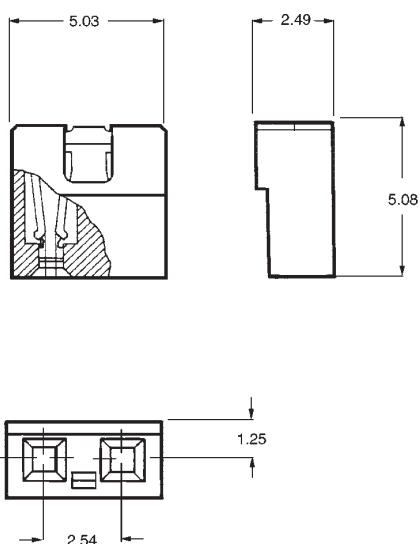
Insertion Depth

- 4.85 mm min.[provides 3.81 mm wipe]

Part Number



- 76264 = 0.76 µm gold plated, Colour body: Blue
- 76265 = tin-lead plated, Colour body: Blue
- 76438 = 0.76 µm GXT plated, Colour body: Black



Dimensions in mm