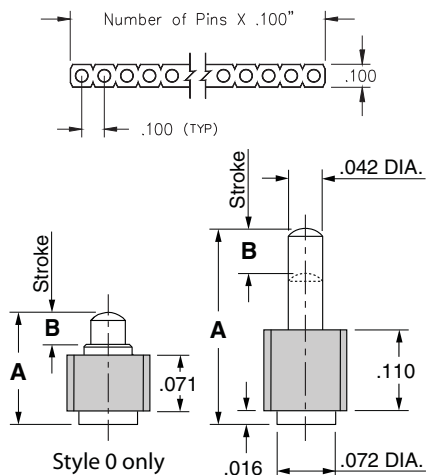


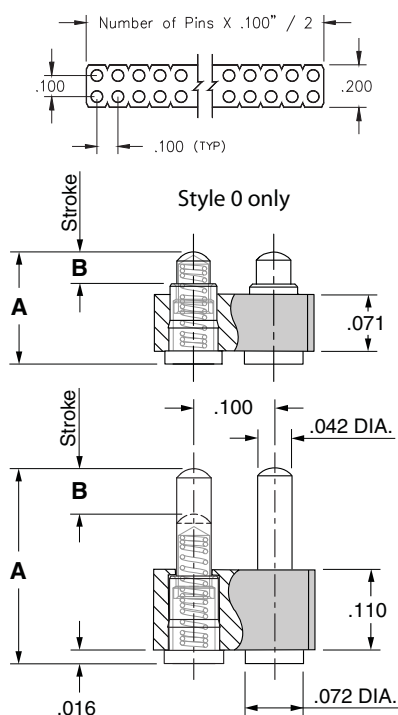
- Modular contacts for use on .100" grid, available in five heights from .137" to .236", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- Both 811 & 813 series, contact styles 1 thru 4, are available on 32mm wide carrier tape for pick and place assembly per EIA-481. See page 9 for strip lengths available and ordering information.



SINGLE ROW Series 811



DOUBLE ROW Series 813



Ordering Information

Single Row Series 811

811-22-0XX-30-00X101

Specify # of contacts

Specify contact style 0-4

01-64

Double Row Series 813

813-22-0XX-30-00X101

Specify # of contacts

Specify contact style 0-4

04-72

For 811 & 813 Tape & Reel packaging See page 9

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	.137	.039
1	.177	.045
2	.197	.055
3	.217	.055
4	.236	.055

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper plated 10μ" gold
 Insulator: High temp. thermoplastic, rated UL94 V-0

Mechanical:

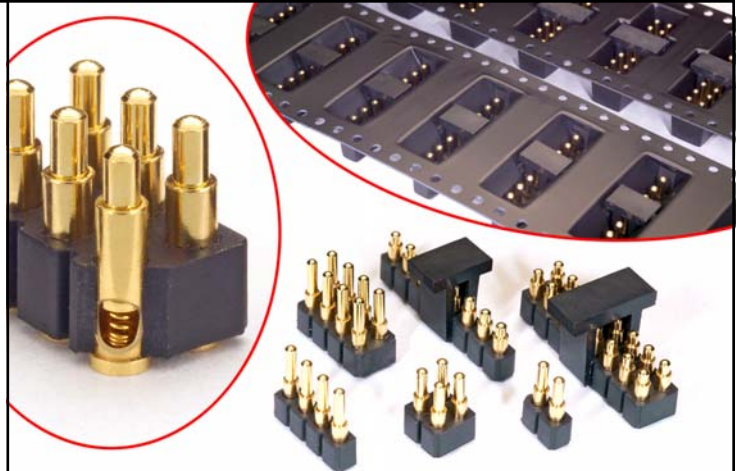
Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: 1,000,000 cycles min.
 Coplanarity: .005" (Single Row up to 10 pins; Double Row up to 20 pins) For higher pin counts contact Tech Support.

Electrical:

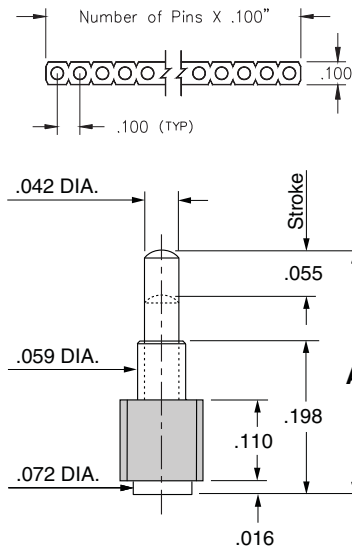
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.



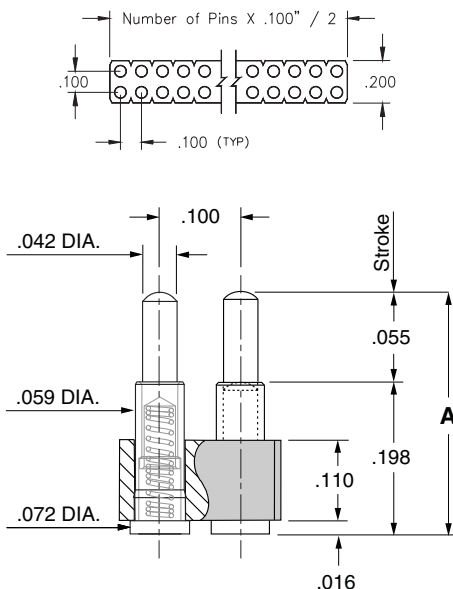
- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- Both 812 & 814 series are available on 32mm or 44mm wide carrier tape for automated pick and place assembly per EIA-481. See page 9 for strip lengths available and ordering information.



SINGLE ROW Series 812



DOUBLE ROW Series 814



Ordering Information

Single Row Series 812

812-22-0XX-30-00X101

Specify # of contacts

Specify contact style 0-9

02-64

Double Row Series 814

814-22-0XX-30-00X101

Specify # of contacts

Specify contact style 0-9

04-72

For 812 & 814 Tape & Reel packaging See page 9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel

Spring: Beryllium copper plated 10μ" gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams

Spring force @ mid stroke (.0275): 60 grams

Durability: 1,000,000 cycles min.

Coplanarity: .005" (Single Row up to 10 pins; Double Row up to 20 pins) For higher pin counts contact Tech Support.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

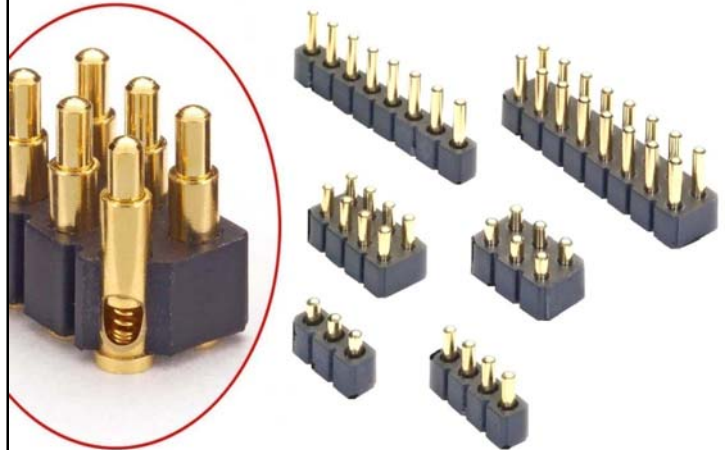
Insulation resistance: 10,000MΩ min.

Dielectric strength: 700Vrms min.

Capacitance: 1pF max.



- Modular contacts for use on .100" grid, available in a height of .288", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045" mid. stroke and a 2,29 max. stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 819 & 820 series contact strips are designed for placement onto a Ø .082" solder pad prior to reflow soldering.



SINGLE ROW Series 819

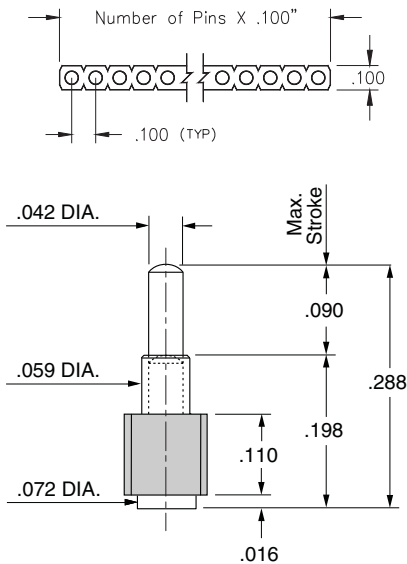


Fig. 1

Ordering Information

Single Row Series 819

819-22-0XX-30-001101

Specify # of contacts → 01-64

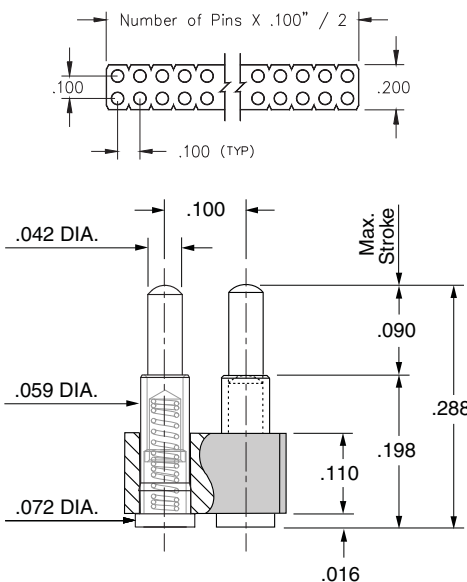
Fig. 2

Double Row Series 820

820-22-0XX-30-001101

Specify # of contacts → 04-72

DOUBLE ROW Series 820



Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel.

Spring: Beryllium copper plated 10μ" gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height : 25 grams

Spring force @ mid stroke : 60 grams

Durability: 1,000,000 cycles min.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

Insulation resistance: 10,000MΩ min.

Dielectric strength: 700Vrms min.

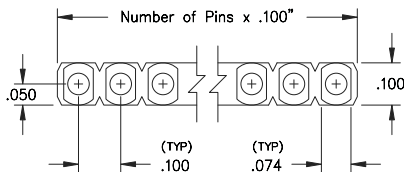
Capacitance: 1pF max.

RoHS
2002/95/EC

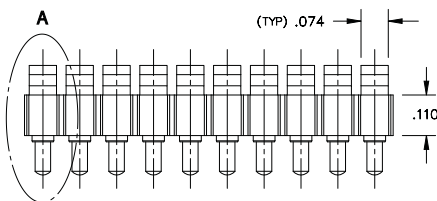
- Modular contacts for use on .100" grid, supplied in single row contact strips. Piston action is parallel to the board surface.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045" mid. stroke & .090" max. stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 810 series contact strips are designed for manual placement onto solder pads.



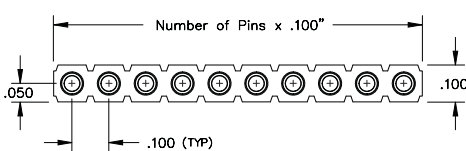
Single Row Series 810



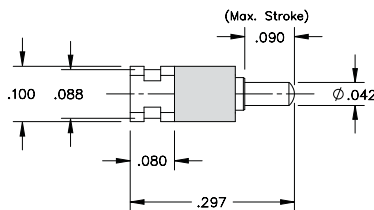
TOP VIEW



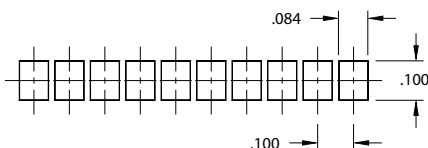
FRONT VIEW



DETAIL 'A'



Suggested P.C.B. FOOTPRINT



Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

Ordering Information

Series 810

Single Row Surface Mount

810-22-0__-40-001101

Specify # of pins

01-10

*For Electrical,
Mechanical & Environmental
Data, See pg. 4.1*

*For RoHS compliance
select plating code.*

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel.

Spring: Beryllium copper plated 10 μ " gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams

Spring force @ mid stroke: 60 grams

Durability: 1,000,000 cycles min.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20m Ω max.

Insulation resistance: 10,000M Ω min.

Dielectric strength: 700Vrms min.

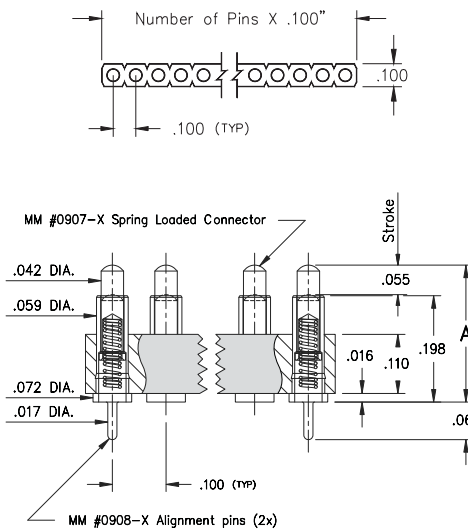
Capacitance: 1pF max.



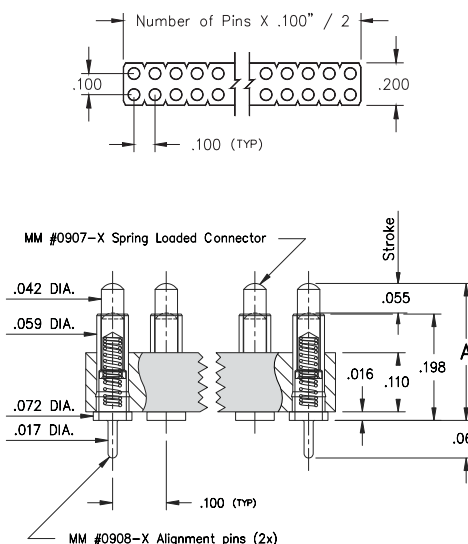
- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .0275 mid stroke & .055 max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 812 & 814 series contact strips are designed for manual placement into Ø .023±.003" plated-throughs in the circuit board prior to intrusive reflow soldering.



Single Row Series 812...01X101



Double Row Series 814...01X101



Ordering Information

Single Row Series 812...01X101

812-22-0XX-30-01X101

Specify # of contacts

Specify contact style 0-9

03-64

Double Row Series 814...01X101

814-22-0XX-30-01X101

Specify # of contacts

Specify contact style 0-9

06-72

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel

Spring: Beryllium copper plated 10μ" gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams

Spring force @ mid stroke (B/2): 60 grams

Durability: 1,000,000 cycles min.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

Insulation resistance: 10,000MΩ min.

Dielectric strength: 700Vrms min.

Capacitance: 1pF max.



Ordering Information for Series 811/812/813/814 in Carrier Tape

Single Row Series 811 811-22-0XX-30-00X191 Specify contact style 0-4 Specify # of contacts 02 - 08 (32mm wide tape, 400 parts per 13" reel)	Double Row Series 813 813-22-0XX-30-00X191 Specify contact style 0-4 Specify # of contacts 04 - 16 (32mm wide tape, 400 parts per 13" reel)
Single Row Series 811 811-22-0XX-30-00X191 Specify contact style 1-4 Specify # of contacts 09 - 12 (44mm wide tape, 200 parts per 13" reel)	Double Row Series 813 813-22-0XX-30-00X191 Specify contact style 1-4 Specify # of contacts 18 - 24 (44mm wide tape, 200 parts per 13" reel)
Single Row Series 812 812-22-0XX-30-00X191 Specify contact style 0-2 Specify # of contacts 02 - 08 (32mm wide tape, 400 parts per 13" reel)	Double Row Series 814 814-22-0XX-30-00X191 Specify contact style 0-2 Specify # of contacts 04 - 16 (32mm wide tape, 400 parts per 13" reel)
Single Row Series 812 812-22-0XX-30-00X191 Specify contact style 0-2 Specify # of contacts 09 - 12 (44mm wide tape, 200 parts per 13" reel)	Double Row Series 814 814-22-0XX-30-00X191 Specify contact style 0-2 Specify # of contacts 18 - 24 (44mm wide tape, 200 parts per 13" reel)
Single Row Series 812 812-22-0XX-30-00X191 Specify contact style 3-9 Specify # of contacts 02 - 12 (44mm wide tape, 200 parts per 13" reel)	Double Row Series 814 814-22-0XX-30-00X191 Specify contact style 3-9 Specify # of contacts 04 - 24 (44mm wide tape, 200 parts per 13" reel)
