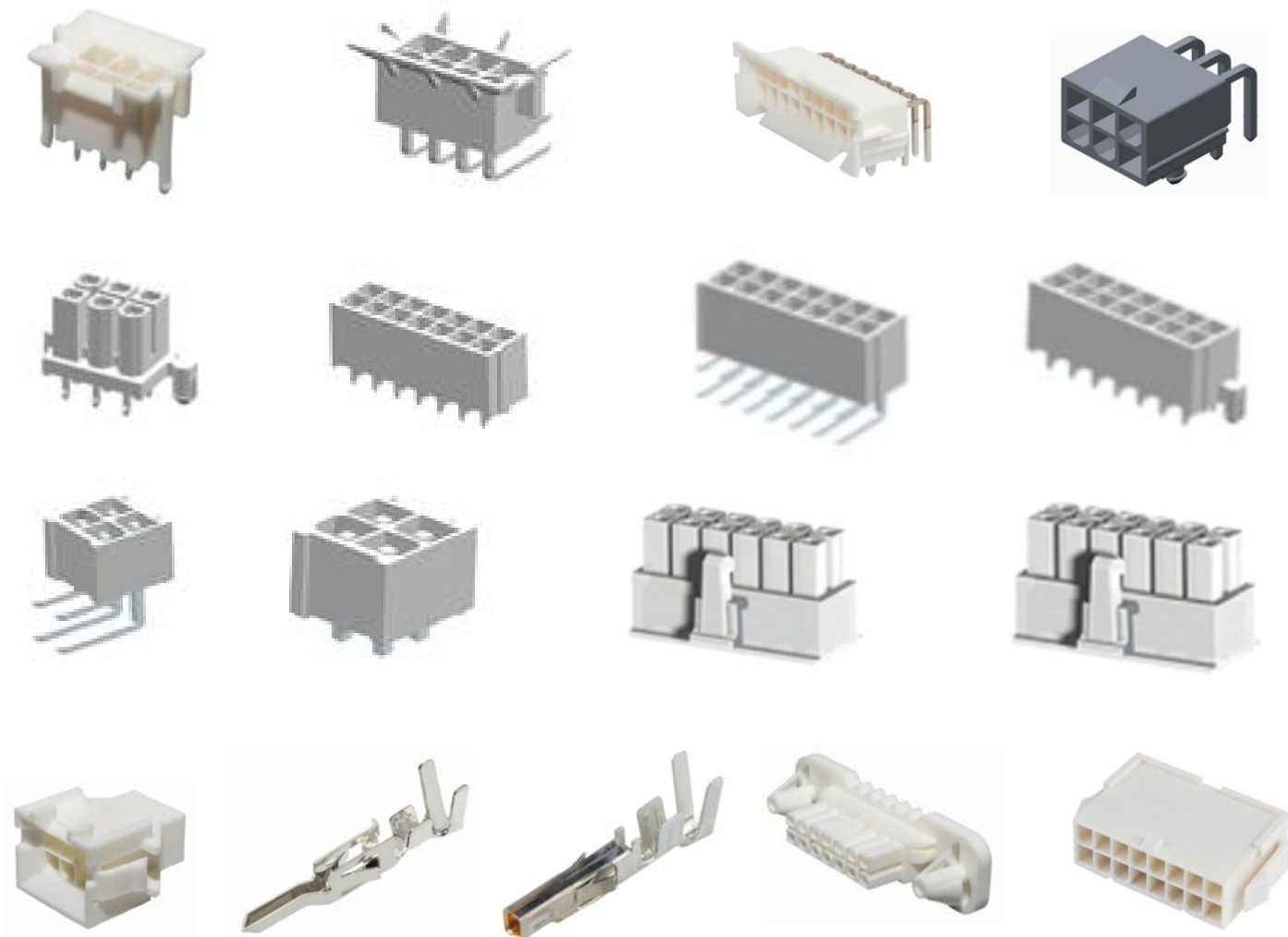


.165"(4.20mm) Pitch/Disconnectable Insulation Displacement Connectors

.165"(4.20mm) Connectors



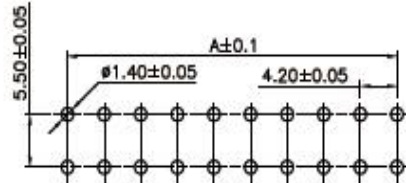
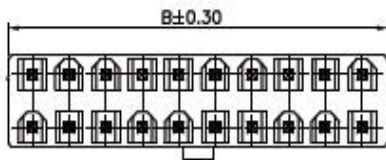
.165" (4.20mm) Pitch 180° Wafer

Specifications:
 Material And Finish:
 Insulator: Nylon 66 UL94V-2 Color: Translucence
 Contact: Copper Alloy
 Plated: See Ordering Information
 Rating:
 Current Rating: 7.0 Amp Max (16AWG/ Per pin)
 Voltage Rating: 600V AC/DC
 Operating Temperature Range: -40°~+105°C
 Electrical:
 Contact resistance: 10m Ohm Max
 Insulator resistance: 1000M ohm min.
 Withstanding Voltage: 1500V AC/Minute



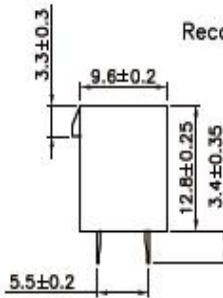
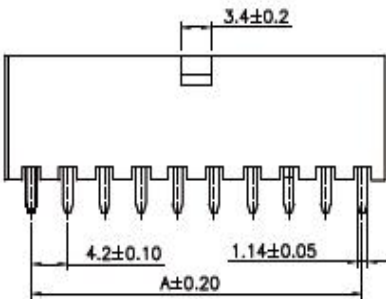
Ordering Information
 A42012S-XXX-01-X
 1 2 3 4 5

1:— Series No.
 2:— S: Straight Type
 3:— No. of Positions
 4:— A: Gold Flash
 Q: Tin Plated
 5:— A: In Bag
 B: In Tube
 C: In Tray



Recommended PCB Layout

Circuits	Dimension mm	
	A	B
02	0.00	5.40
04	4.20	9.60
06	8.40	13.80
08	12.60	18.00
10	16.80	22.20
12	21.00	26.40
14	25.20	30.60
16	29.40	34.80
18	33.60	39.00
20	37.80	43.20
22	42.00	47.40
24	46.20	51.60

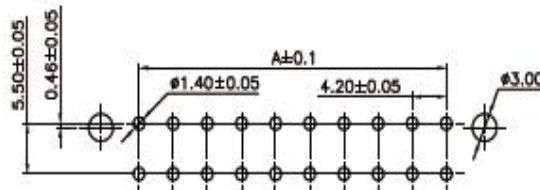
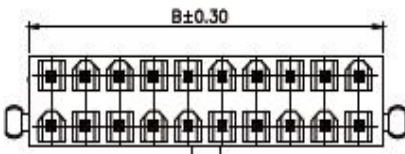


Specifications:
 Material And Finish:
 Insulator: Nylon 66 UL94V-0 Color: Ivory-White
 Contact: Copper Alloy
 Plated: See Ordering Information
 Rating:
 Current Rating: 7.0 Amp Max (16AWG/ Per pin)
 Voltage Rating: 600V AC/DC
 Operating Temperature Range: -40°~+105°C
 Electrical:
 Contact resistance: 10m Ohm Max
 Insulator resistance: 1000M ohm min.
 Withstanding Voltage: 1500V AC/Minute



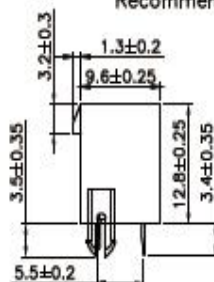
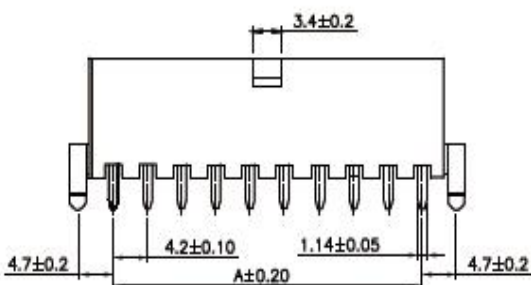
Ordering Information
 A42012S-XXX-01-1X
 1 2 3 4 5

1:— Series No.
 2:— S: Straight Type
 3:— No. of Positions
 4:— A: Gold Flash
 G: Gold 30U"
 Q: Tin Plated
 ☑ S: Matte Tin Plated
 5:— A: In Bag
 B: In Tube
 C: In Tray



Recommended PCB Layout

Circuits	Dimension mm	
	A	B
02	0.00	5.40
04	4.20	9.60
06	8.40	13.80
08	12.60	18.00
10	16.80	22.20
12	21.00	26.40
14	25.20	30.60
16	29.40	34.80
18	33.60	39.00
20	37.80	43.20
22	42.00	47.40
24	46.20	51.60

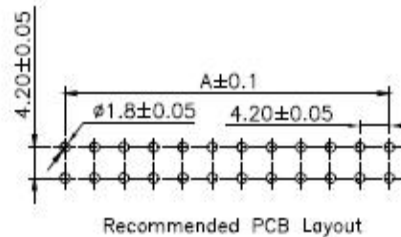
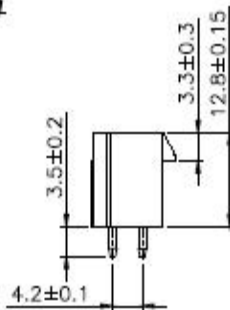
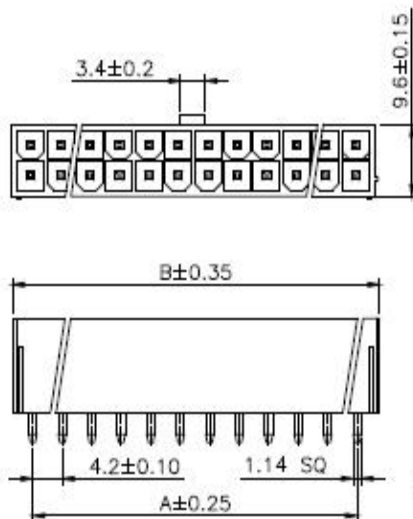


Specifications:
 Material And Finish:
 Insulator: Nylon 66 UL94V-2 Color: Translucence
 Contact: Brass
 Plated: See Ordering Information
 Rating:
 Current Rating: 13.0 Amp Max (16AWG/ Per pin)
 Voltage Rating: 600V AC/DC
 Operating Temperature Range: -40°~+105°C
 Electrical:
 Contact resistance: 10m Ohm Max
 Insulator resistance: 1000M ohm min.
 Withstanding Voltage: 1500V AC/Minute



Ordering Information
 A42012AS-XXX-01-X
 1 2 3 4 5

1:— Series No.
 2:— S: Straight Type
 3:— No. of Positions
 4:— A: Gold Flash
 Q: Tin Plated
 5:— A: In Bag
 B: In Tube
 C: In Tray



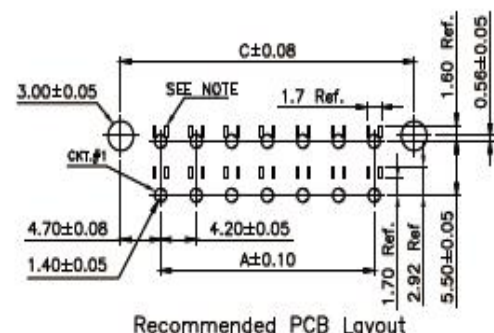
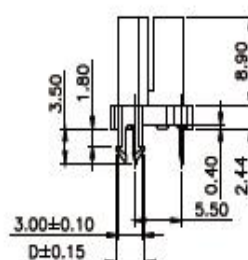
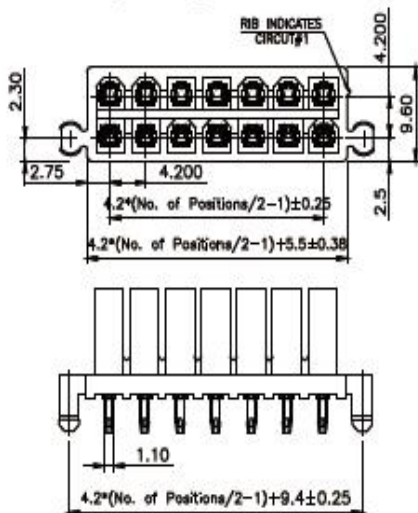
Circuits	Dimension mm	
	A	B
02	0.00	5.40
04	4.20	9.60
06	8.40	13.80
08	12.60	18.00
10	16.80	22.20
12	21.00	26.40
14	25.20	30.60
16	29.40	34.80
18	33.60	39.00
20	37.80	43.20
22	42.00	47.40
24	46.20	51.60

Specifications:
 Material And Finish:
 Insulator: Nylon 66 UL94V-2 Color: Natural
 Contact: Phosphor Bronze
 Plated: See Ordering Information
 Rating:
 Current Rating: 7.0 Amp (Per pin)
 Voltage Rating: 600V AC/DC
 Operating Temperature Range: -40°~+105°C
 Electrical:
 Contact resistance: 10m Ohm Max
 Insulator resistance: 1000M ohm min.
 Withstanding Voltage: 1500V AC/Minute



Ordering Information
 A42022AS-XXX-03-XX
 1 2 3 4 5 6

1:— Series No.
 2:— S: Straight Type
 3:— No. of Positions
 4:— Q: Tin Plated
 5:— 1: UL94V-0 (DIM.D=3.4mm)
 2: UL94V-2 (DIM.D=3.4mm)
 3: UL94V-2 (DIM.D=3.4mm)
 6:— B: In Tube
 C: In Tray



.165" (4.20mm) Pitch 180° / 90° Wafer

Specifications:

Material And Finish:

Insulator: Nylon 66 UL94V-2 Color: Translucence

Contact: Copper Alloy

Plated: See Ordering Information

Rating:

Current Rating: 13.0 Amp Max (16AWG/ Per pin)

Voltage Rating: 600V AC/DC

Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

Insulator resistance: 1000M ohm min.

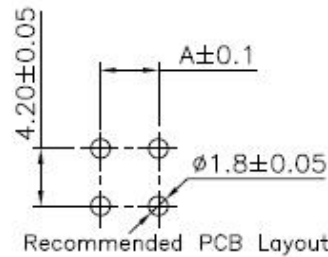
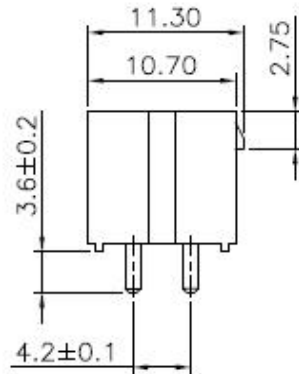
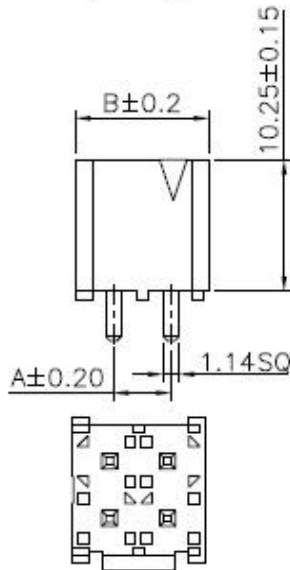
Withstanding Voltage: 1500V AC/Minute



Ordering Information

A42012BS-XXX-01-X
1 2 3 4 5

- 1:— Series No.
- 2:— S: Straight Type
- 3:— No. of Positions
- 4:— A: Gold Flash
Q: Tin Plated
- 5:— A: In Bag
B: In Tube
C: In Tray



Circuits	Dimension mm	
	A	B
04	4.20	9.70
06	8.40	13.90
08	12.60	18.10
10	16.80	22.30
12	21.00	26.50
14	25.20	30.70
16	29.40	34.90

Specifications:

Material And Finish:

Insulator: Nylon 66 UL94V-2 Color: Translucence

Contact: Copper Alloy

Plated: See Ordering Information

Rating:

Current Rating: 13.0 Amp Max (16AWG/ Per pin)

Voltage Rating: 600V AC/DC

Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

Insulator resistance: 1000M ohm min.

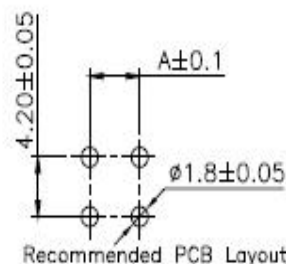
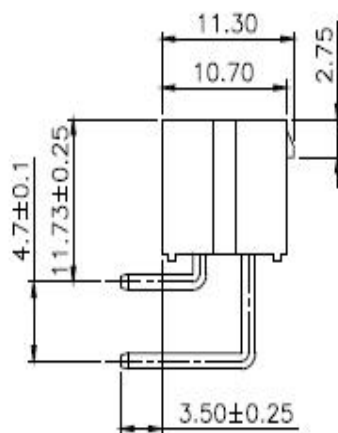
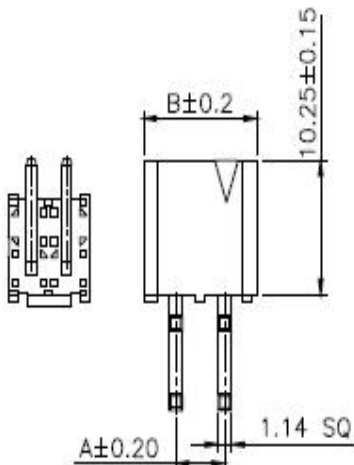
Withstanding Voltage: 1500V AC/Minute



Ordering Information

A42012BR-XXX-01-X
1 2 3 4 5

- 1:— Series No.
- 2:— R: R/A Type
- 3:— No. of Positions
- 4:— A: Gold Flash
Q: Tin Plated
- 5:— A: In Bag
B: In Tube
C: In Tray



Circuits	Dimension mm	
	A	B
04	4.20	9.70
06	8.40	13.90
08	12.60	18.10
10	16.80	22.30
12	21.00	26.50
14	25.20	30.70
16	29.40	34.90

.165" (4.20mm) Pitch 90° Wafer

Specifications:

Material And Finish:

Insulator: Nylon 66 UL94V-2 Color: Translucence

Contact: Copper Alloy

Plated: See Ordering Information

Rating:

Current Rating: 13.0 Amp Max (16AWG/ Per pin)

Voltage Rating: 600V AC/DC

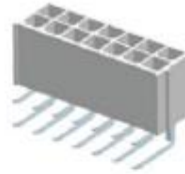
Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

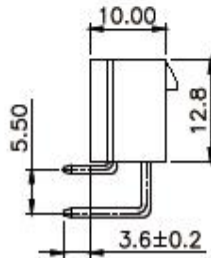
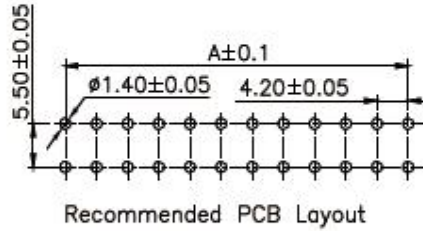
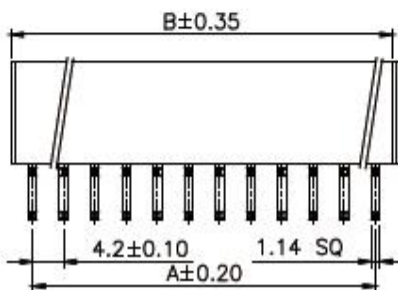
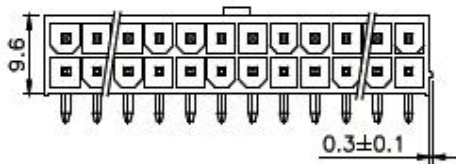
Insulator resistance: 1000M ohm min.

Withstanding Voltage: 1500V AC/Minute



Ordering Information
A42012AR-XXX-01-X
1 2 3 4 5

- 1:— Series No.
2:— R:R/A Type
3:— No. of Positions
4:— A:Gold Flash
Q: Tin Plated
5:— A: In Bag
B: In Tube
C: In Tray



Circuits	Dimension mm	
	A	B
02	0.00	5.40
04	4.20	9.60
06	8.40	13.80
08	12.60	18.00
10	16.80	22.20
12	21.00	26.40
14	25.20	30.60
16	29.40	34.80
18	33.60	39.00
20	37.80	43.20
22	42.00	47.40
24	46.20	51.60

Specifications:

Material And Finish:

Insulator: Nylon 66 UL94V-0 Color: Natural

Contact: Copper Alloy

Plated: See Ordering Information

Rating:

Current Rating: 13.0 Amp Max (16AWG/ Per pin)

Voltage Rating: 600V AC/DC

Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

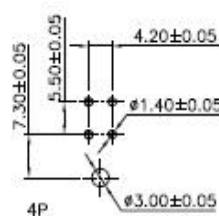
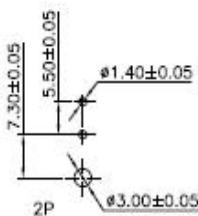
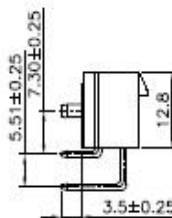
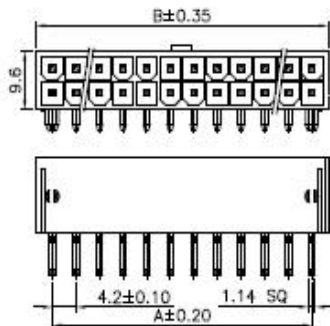
Insulator resistance: 1000M ohm min.

Withstanding Voltage: 1500V AC/Minute

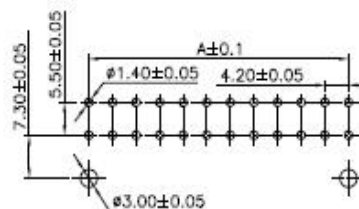


Ordering Information
A42012AR-XXX-01-0X
1 2 3 4 5

- 1:— Series No.
2:— R:R/A Type
3:— No. of Positions
4:— A:Gold Flash
Q: Tin Plated
S: Matte Tin Plated
Y: 30u" Gold on contact,
Matte Tin on tail
5:— A: In Bag
B: In Tube
C: In Tray



Recommended PCB Layout



Circuits	Dimension mm	
	A	B
02	0.00	5.40
04	4.20	9.60
06	8.40	13.80
08	12.60	18.00
10	16.80	22.20
12	21.00	26.40
14	25.20	30.60
16	29.40	34.80
18	33.60	39.00
20	37.80	43.20
22	42.00	47.40
24	46.20	51.60

.165" (4.20mm) Pitch 90° Wafer / Housing

Specifications:

Material And Finish:

Insulator: Nylon66 UL94V-0 Color: Natural

Contact: Brass

Plated: See Ordering Information

Rating:

Current Rating: 13Amp Max (16AWG Per Pin)

Voltage Rating: 600V AC/DC

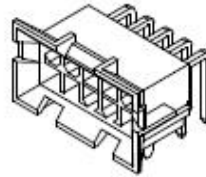
Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

Insulator resistance: 1000M ohm min.

Withstanding Voltage: 1500V AC/Minute



Ordering Information

A42012R-XXX-01-A
1 2 3 4 5

1:— Series No.

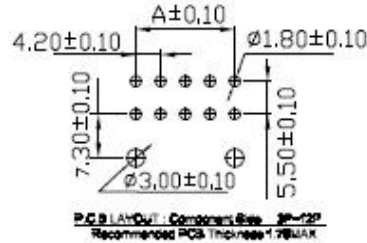
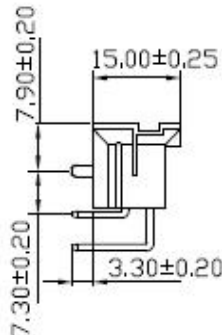
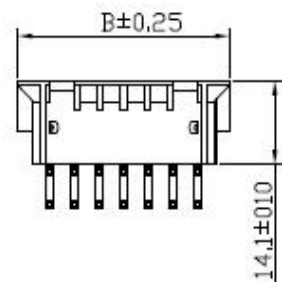
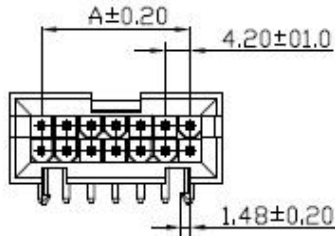
2:— R: R/A Type

3:— No. of Positions

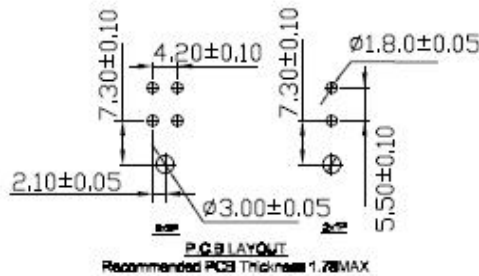
4:— A: Gold Flash

Q: Tin Plated

5:— A: In Bag



PCB LAYOUT Components Size: 2P~12P
Recommended PCB Thickness: 1.78MM



PCB LAYOUT
Recommended PCB Thickness: 1.78MM

Ordering Information & Dimensions

Part NO.	Dimensions(mm)	
	A	B
1P	—	10.80
2P	4.20	16.00
3P	8.40	19.20
4P	12.60	23.40
5P	16.80	27.60
6P	21.00	31.80
7P	25.20	36.00
8P	29.40	40.20
9P	33.60	44.40
10P	37.80	48.60
11P	42.00	52.80
12P	46.20	57.00

Specifications:

Material And Finish:

Insulator: Nylon66 UL94V-0 Color: Natural

Plated: See Ordering Information

Rating:

Current Rating: 13Amp Max (16AWG Per Pin)

Voltage Rating: 600V AC/DC

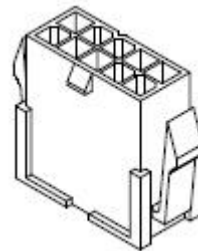
Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

Insulator resistance: 1000M ohm min.

Withstanding Voltage: 1500V AC/Minute



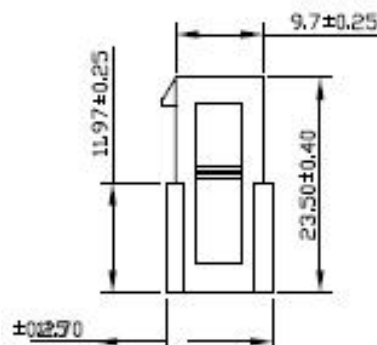
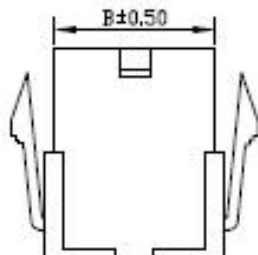
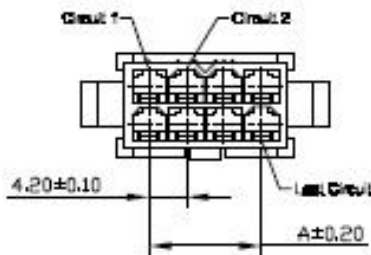
Ordering Information

H42012-XXP-02-A
1 2 3

1:— Series No.

2:— No. of Positions:

3:— A: In Bag



Circuits	Dimensions(mm)	
	A	B
2x1P	—	5.40
2x2P	4.20	9.60
2x3P	8.40	13.80
2x4P	12.60	18.00
2x5P	16.80	22.20
2x6P	21.00	26.40
2x7P	25.20	30.60
2x8P	29.40	34.80
2x9P	33.60	39.00
2x10P	37.80	43.20
2x11P	42.00	47.40
2x12P	46.20	51.60

.165" (4.20mm) Pitch Housing

Specifications:

Material And Finish:

Insulator: Nylon 66 UL94V-2 Color: Translucence

Rating:

Current Rating: 13.0 Amp Max (16AWG/ Per pin)

Voltage Rating: 600V AC/DC

Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

Insulator resistance: 1000M ohm min.

Withstanding Voltage: 1500V AC/Minute



Ordering Information

A42012AH-XX-A

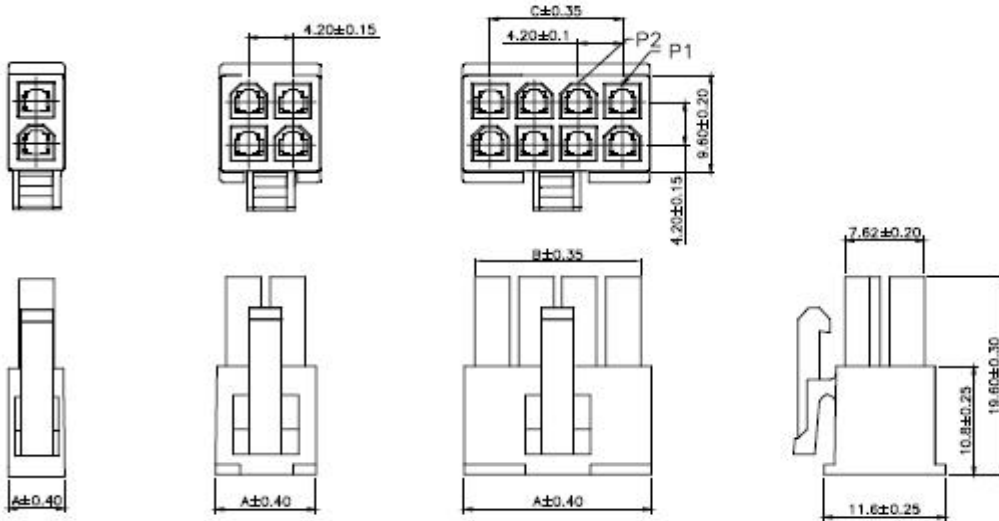
1 2 3 4

1:— Series No.

2:—H:Housing

3:—No. of Positions

4:—In bag



No.	Dimensions		
	A	B	C
02	5.40	3.40	---
04	9.60	7.60	4.20
06	13.80	11.80	8.40
08	18.00	16.00	12.60
10	22.20	20.20	16.80
12	26.40	24.40	21.00
14	30.60	28.60	25.20
16	34.80	32.80	29.40
18	39.00	37.00	33.60
20	43.20	41.20	37.80
22	47.40	45.40	42.00
24	51.60	49.60	46.20

Specifications:

Material And Finish:

Insulator: Nylon 66 UL94V-0 Color: Translucence

Rating:

Current Rating: 13.0 Amp Max (16AWG/ Per pin)

Voltage Rating: 600V AC/DC

Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

Insulator resistance: 1000M ohm min.

Withstanding Voltage: 1500V AC/Minute



Ordering Information

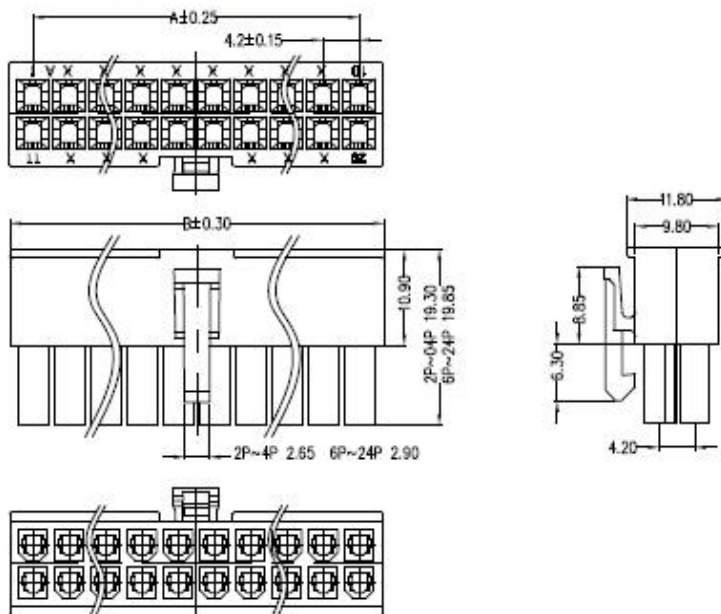
H42001-XX-A

1 2 3

1:— Series No.

2:—No. of Positions

3:—A:In Bag



PART NO.	Dimensions	
	A	B
H42001-02-A	---	5.50
H42001-04-A	4.20	9.70
H42001-05-A	8.40	13.90
H42001-08-A	12.60	18.10
H42001-10-A	16.80	22.30
H42001-12-A	21.00	26.50
H42001-14-A	25.20	30.70
H42001-16-A	29.40	34.90
H42001-18-A	33.60	39.10
H42001-20-A	37.80	43.30
H42001-22-A	42.00	47.50
H42001-24-A	46.20	51.70

.165" (4.20mm) Pitch Housing

Specifications:

Material And Finish:

Insulator: Nylon66 UL94V-0 Color: Natural

Plated: See Ordering Information

Rating:

Current Rating: 13Amp Max(16AWG Per Pin)

Voltage Rating: 600V AC/DC

Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

Insulator resistance: 1000M ohm min.

Withstanding Voltage: 1500V AC/Minute



Ordering Information

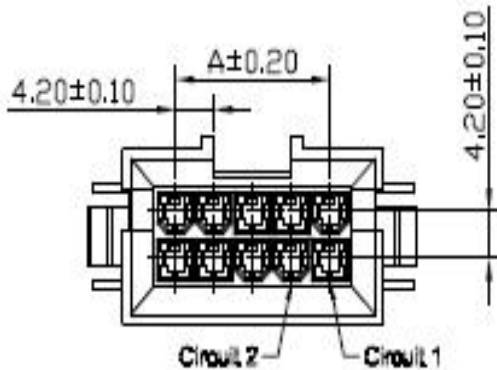
H42012-XXP-03-A

1 2 3

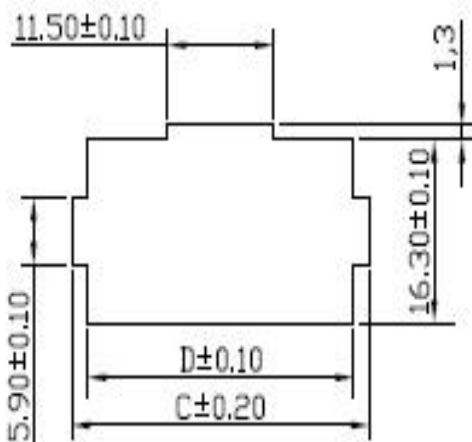
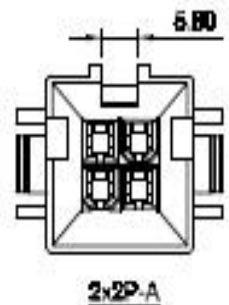
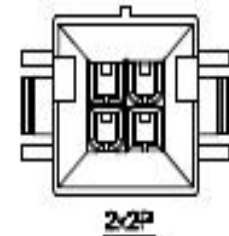
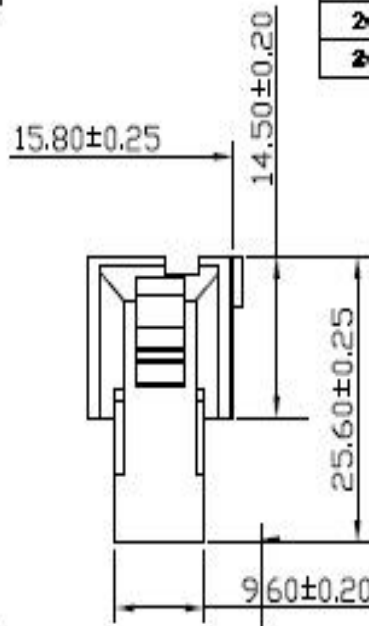
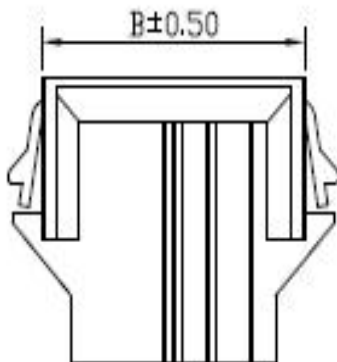
1:—Series No.

2:—No. of Positions

3:—A:In Bag



Circuits	Dimensions(mm)			
	A	B	C	D
2x2P	4.20	16.00	18.00	18.30
2x3P	8.40	20.00	24.00	20.50
2x4P	12.60	24.20	28.20	24.70
2x6P	18.00	28.40	32.40	28.90
2x8P	21.00	32.00	36.00	33.10
2x7P	25.20	36.00	40.00	37.30
2x8P	29.40	41.00	46.00	41.60
2x9P	33.60	46.20	49.20	46.70
2x10P	37.80	49.40	63.40	49.90
2x11P	42.00	63.00	67.00	64.10
2x12P	48.20	67.00	81.00	68.30
2x18P	71.40	83.00	87.00	83.50



RECOMMENDED PCB CUTOFF
PANET THICKNESS 1.60

.165" (4.20mm) Pitch 180° Wafer

Specifications:

Material And Finish:

Insulator: Nylon 66 UL94V-0 UL94V-2 GWT

Contact: Copper Alloy

Plated: See Ordering Information

Rating:

Current Rating: 9A Max,

Voltage Rating: 600V AC/DC

Operating Temperature Range: -40°~+105°C

Electrical:

Contact resistance: 10m Ohm Max

Insulator resistance: 1000M ohm min.

Withstanding Voltage: 1500V AC/Minute

Ordering Information

A42022AS-XXX-01-XX

1 2 3 4 5 6

1:— Series No.

2:— S: Straight Type

3:— No. of Positions

4:— A: Gold Flash

H: Gold Flash on contact,

Matte Tin on tail

Y: 30u" Gold on contact;

Matte Tin on tail

Q: Tin Plated

5:— L2: PA66 UL94V-2 NATURAL

L0: PA66 UL94V-0 NATURAL

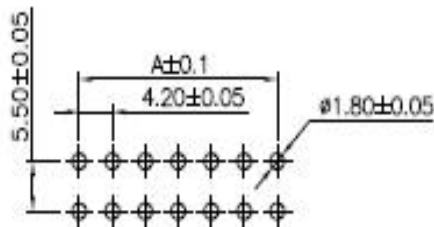
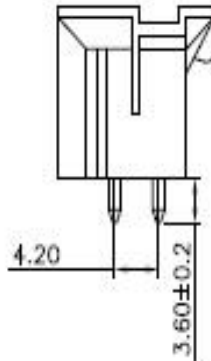
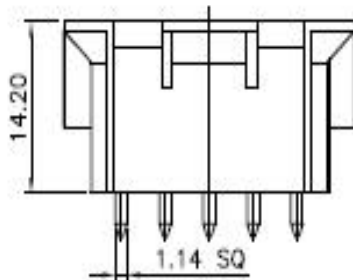
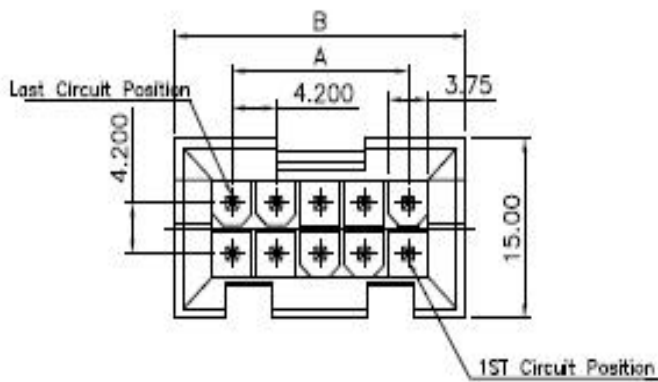
LNG: GLOW WIRE

CAPABLE NATURAL

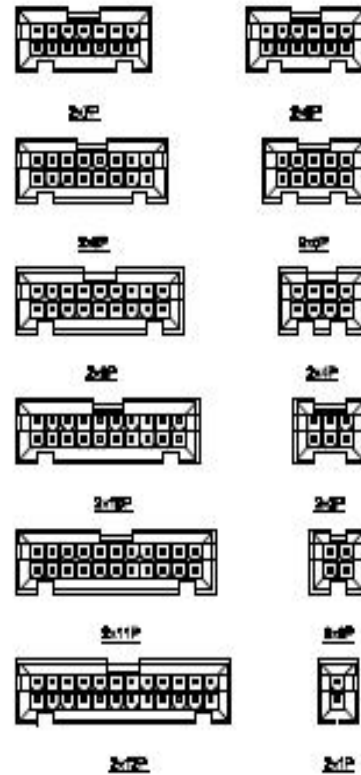
6:— A: In Bag

B: In Tube

C: In Tray



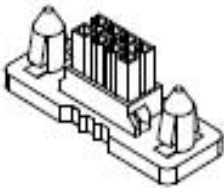
Recommended PCB Layout



Circuits	Dimension mm	
	A	B
04	4.20	15.2
06	8.40	19.4
08	12.60	23.6
10	16.80	27.8
12	21.00	32.0
14	25.20	36.2
16	29.40	40.4
18	33.60	44.6
20	37.80	48.8
22	42.00	53.0
24	46.20	57.2

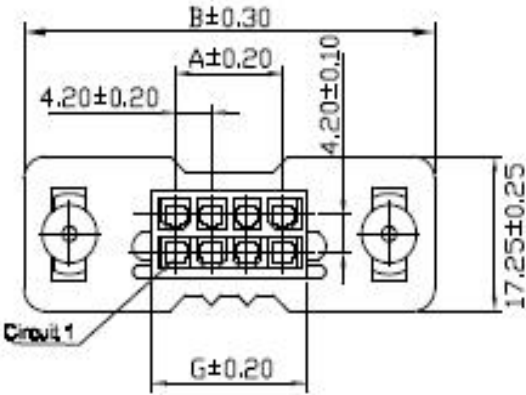
.165" (4.20mm) Pitch Housing

Specifications:
Material And Finish:
Insulator: Nylon66 UL94V-0 Color: Natural
Plated: See Ordering Information
Rating:
Current Rating: 13Amp Max(16AWG Per Pin)
Voltage Rating: 600V AC/DC
Operating Temperature Range: -40°~+105°C
Electrical:
Contact resistance: 10m Ohm Max
Insulator resistance: 1000M ohm min.
Withstanding Voltage: 1500V AC/Minute

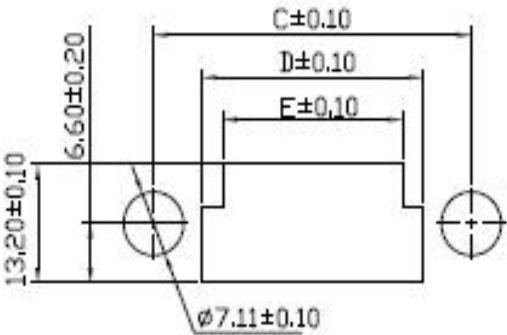
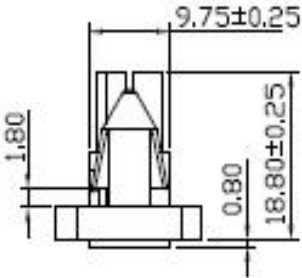
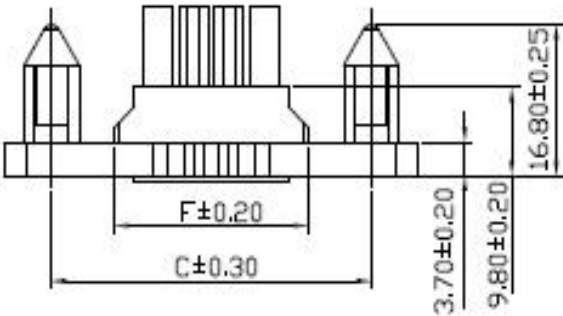


Ordering Information
H42022-XXP-01-A
1 2 3

1:—Series No.
2:—No. of Positions
3:—A:In Bag



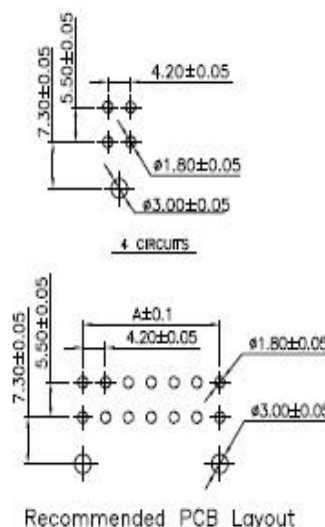
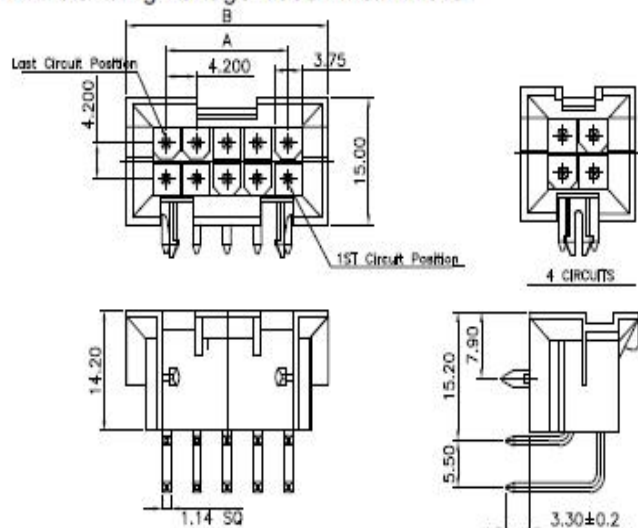
Circuit	Dimensions(mm)						
	A	B	C	D	E	F	G
2x1P	N/A	38.00	26.00	18.40	8.70	10.10	5.40
2x2P	4.20	40.20	29.20	17.80	12.80	14.30	9.60
2x3P	8.40	44.40	33.40	21.80	17.10	18.60	13.80
2x4P	12.60	48.60	37.60	26.00	21.30	22.70	18.00
2x6P	18.80	62.80	41.80	30.20	26.60	28.80	22.20
2x8P	21.00	67.00	46.00	34.40	28.70	31.10	26.40
2x7P	26.20	81.20	60.20	58.80	33.80	36.50	30.80
2x8P	28.40	85.40	64.40	62.80	36.10	39.50	34.80
2x9P	33.60	89.60	68.60	67.00	42.30	43.70	39.00
2x10P	37.80	73.80	82.80	61.20	48.50	47.90	43.20
2x11P	42.00	78.00	87.00	65.40	50.70	52.10	47.40
2x12P	46.20	82.20	71.20	59.60	64.90	56.30	61.60
2x18P	71.40	107.40	96.40	81.80	78.78	81.50	76.80



Withstanding Voltage: 1500V AC/Minute


$$\overline{1} \quad \overline{2} \quad \overline{3} \quad \overline{4} \quad \overline{5}$$

- 1:—Series No.
2:—R:R/A Type
3:—No. of Positions
4:—A:Gold Flash
Y:30u" Gold on
contact;Matte Tin on tail
Q:Tin Plated
5:—B:In Tube
C:In Tray

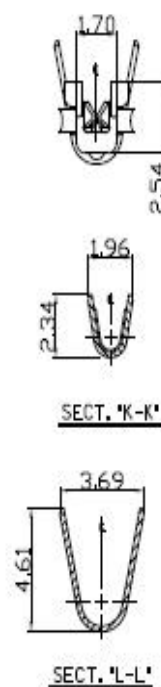
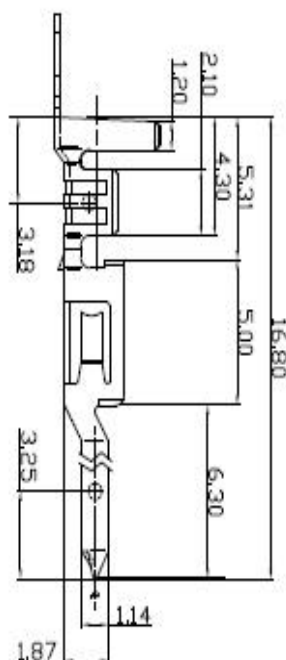
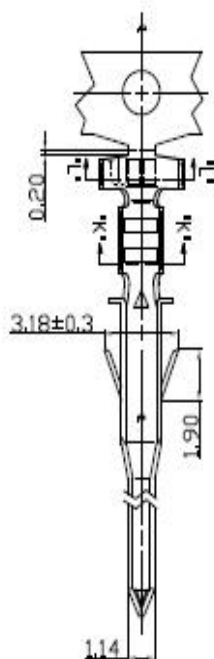


Circuits	Dimension mm	
	A	B
04	4.20	15.2
06	8.40	19.4
08	12.60	23.6
10	16.80	27.8
12	21.00	32.0
14	25.20	36.2
16	29.40	40.4
18	33.60	44.6
20	37.80	48.8
22	42.00	53.0
24	46.20	57.2

Wire Range:AWG#16~20


$$\overline{1} \quad \overline{23} \quad \overline{4}$$

- 1:— Series No.
2:—Terminal
3:—M:Male Terminal
4:—A:Gold flash
Q: Tin plated



.165" (4.20mm) Pitch Terminal

Specifications:

Terminal: Copper Alloy

Plated: see ordering information

Wire Range: AWG#16~20

Ordering Information

H42012TF-PX

1 23 4

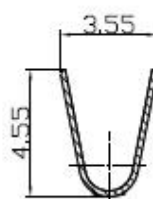
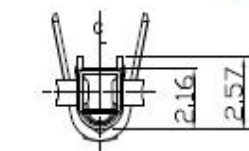
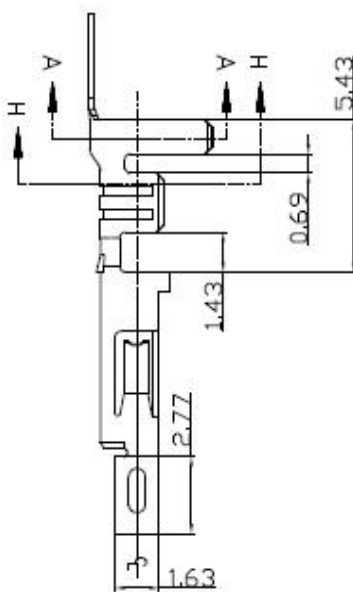
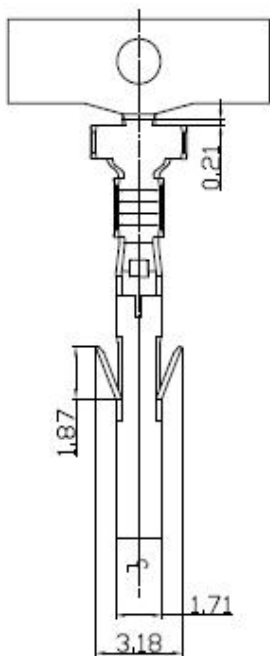
1:— Series No.

2:— Terminal

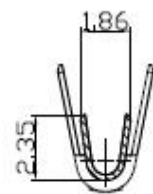
3:— F: Female Terminal

4:— A: Gold flash

Q: Tin plated



SECTION A-A



SECTION H-H