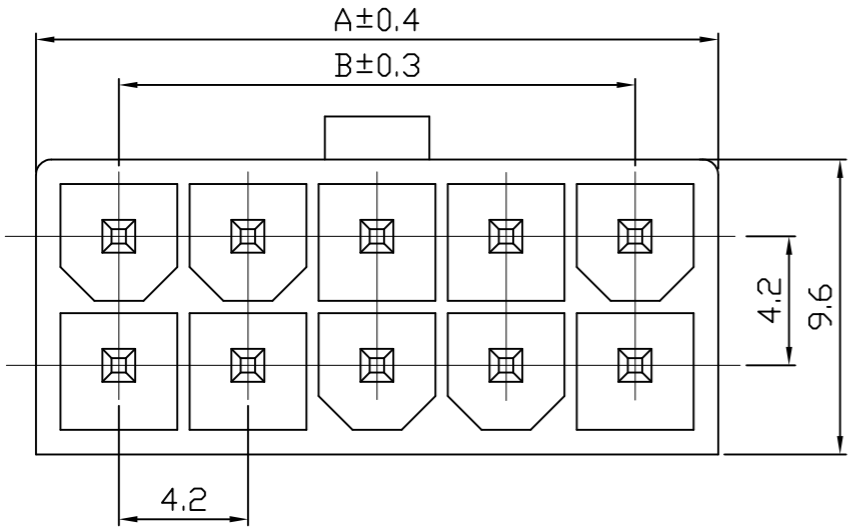
Engineer Drawing

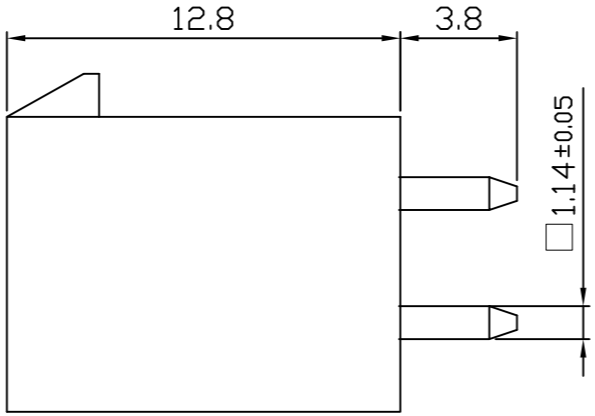


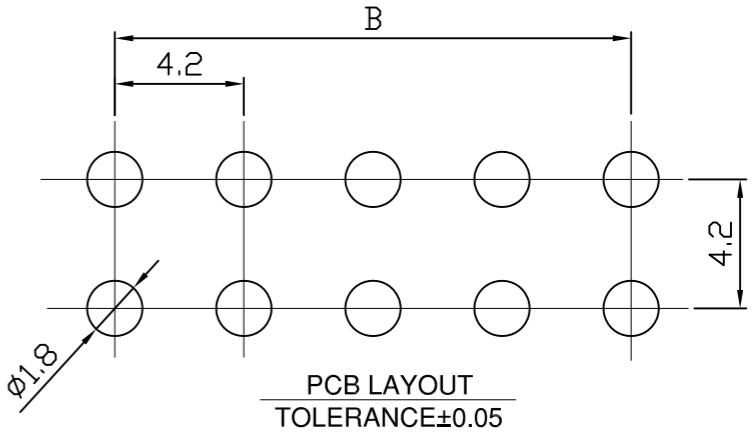
SPECIFICATIONS:

1.Poies:2～24
2.Applicable:AWG #24～#16
3.Voltage Rating:300V DC/AC
4.Current Rating:9.0A
5.Withstand Voltage:1500V AC
6.Working Temperature:-25℃～+85℃
7.Insulation Resistance:≥1000MΩ(Min)
8.Contact Resistance:≤20MΩ(Max)
9.Material:Nylon UL 94V-2(0)/Brass

IPCW 420 W XX X X XX X
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①Series Type
②Pitch:4.20mm
③Connector Type
④Pin Code:See Table 1
⑤Material Code
⑥Colour Code
⑦Serial Code
⑧Other Code





PCB LAYOUT
TOLERANCE±0.05

Table 1			
Pin Code	Circuits	Dimensions(mm)	
		A	B
22	4	5.4	/
24	8	9.6	4.2
26	12	13.8	8.4
28	16	18.0	12.6
2A	20	22.2	16.8
2C	24	26.6	21.0
2E	28	30.6	25.2
2G	32	34.8	29.4
2J	36	39.0	33.6
2L	40	43.2	37.8
2N	44	47.4	42.0
2Q	48	51.6	46.2

TOLERANCES:
X.=±0.40
X.X=±0.30
X.XX=±0.20
GENERAL ANGLE
X°=±5°
X.X°=±4°
X.XX°=±3°

iNCP

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PART NO:
IPCW420W xx 0AV

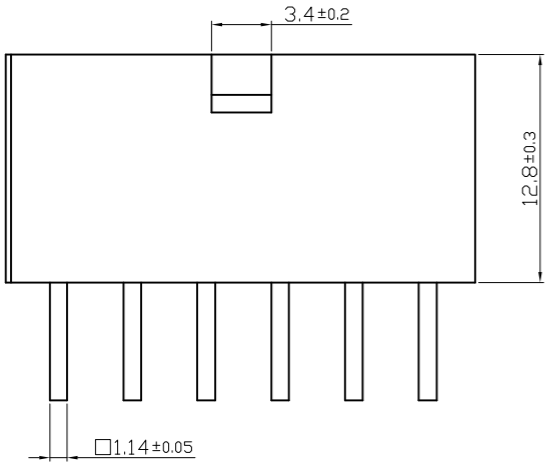
NAME:
4.2mmPH 2xnPin 180° Wire to Board

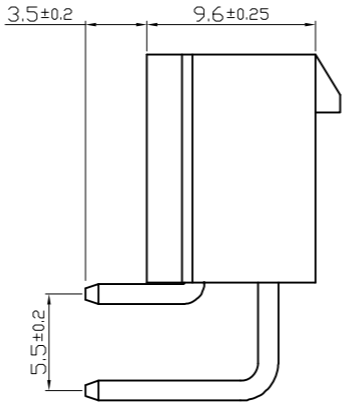
DRAWING NO
IPCW420W0AV

SHEET 1 OF 1

UNITS:mm SCALE:1:1 REV.01

Engineer Drawing



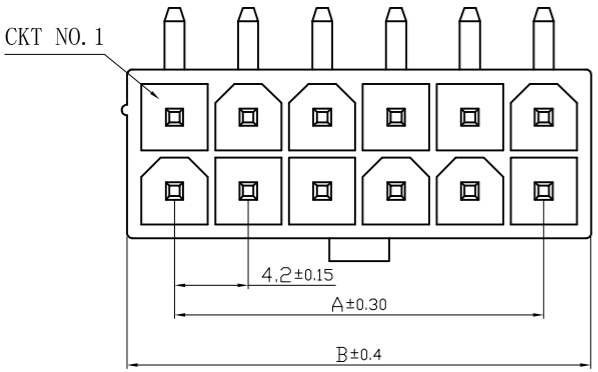


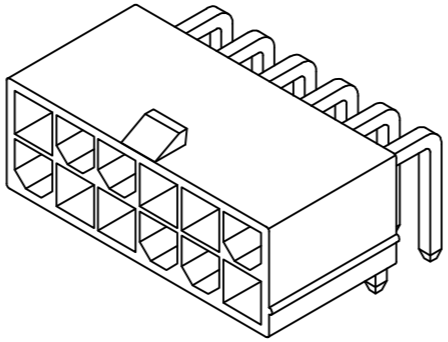
SPECIFICATIONS:

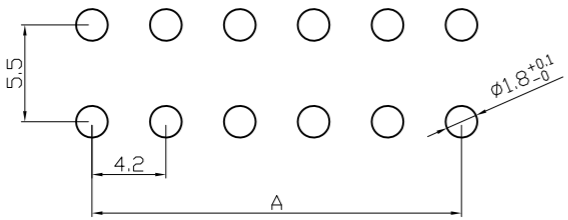
1.Poies:2～24
2.Applicable:AWG #24～#16
3.Withstand Voltage:1500V AC
4.Working Temperature:-25℃～+85℃
5.Insulation Resistance:≥1000MΩ(Min)
6.Material:Nylon UL 94V-0(2)/Brass:1.14mm

IPCW 420 W XX X X XX X
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①Series Type
②Pitch:4.20mm
③Connector Type
④Pin Code:See Table 1
⑤Material Code
⑥Colour Code
⑦Serial Code
⑧Other Code







P.C.B Board Layout(t=1.78mm max)

Table 1

Pin Code	Circuits	Dimensions(mm)		Pin Code	Circuits	Dimensions(mm)	
		A	B			A	B
22	4	/	5.40	2E	28	25.2	30.6
24	8	4.20	9.60	2G	32	29.4	34.8
26	12	8.40	13.8	2J	36	33.6	39.0
28	16	12.6	18.0	2L	40	37.8	43.2
2A	20	16.8	22.2	2N	44	42.0	47.4
2C	24	21.0	26.4	2Q	48	46.2	51.6

TOLERANCES:
X.=±0.40
X.X=±0.3
X.XX=±0.20
GENERAL ANGLE
X°=±5°
X.X°=±4°
X.XX°=±3°

iNCP

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PART NO:
IPCW420W xx 0AR

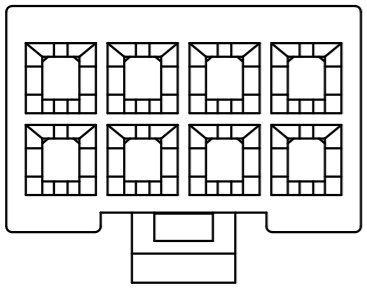
NAME:
4.2mmPH 2xnPin 90° Wire to Board

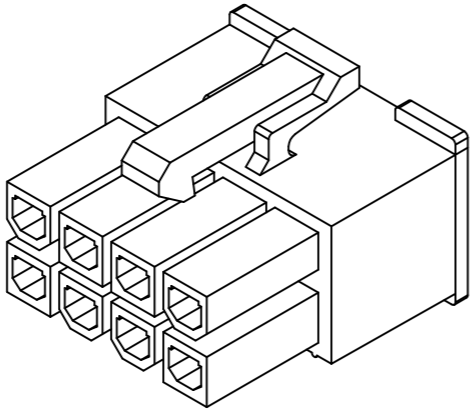
DRAWING NO
IPCW420W0AR

SHEET 1 OF 1

UNITS:mm SCALE:1:1 REV.01

Engineer Drawing



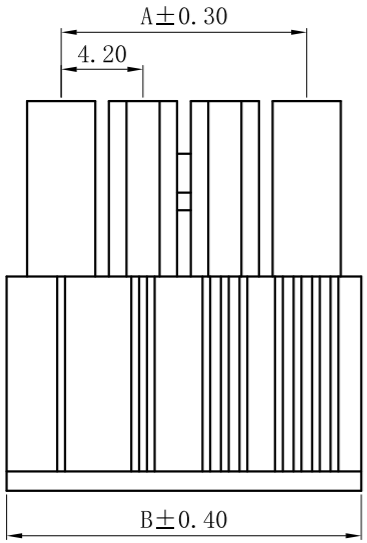


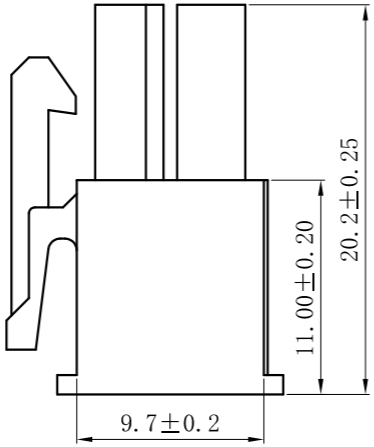
SPECIFICATIONS:

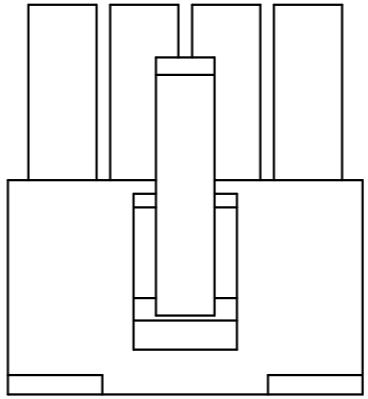
1.Poies:2～24
2.Applicable:AWG #24～#16
3.Voltage Rating:300V DC/AC
4.Current Rating:9.0A
5.Withstand Voltage:1500V AC
6.Working Temperature:-25℃～+85℃
7.Insulation Resistance:≥1000MΩ(Min)
8.Contact Resistance:≤20MΩ(Max)
9.Material:Nylon UL 94V-0

IPCW 420 H XX X X XX X
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①Series Type
②Pitch:4.20mm
③Connector Type
④Pin Code:See Table 1
⑤Material Code
⑥Colour Code
⑦Serial Code
⑧Other Code







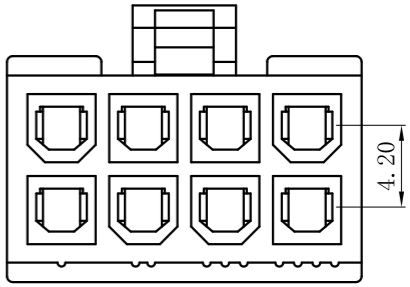


Table 1

Pin Code	Circuits	Dimensions(mm)		Pin Code	Circuits	Dimensions(mm)	
		A	B			A	B
22	4	/	5.60	2E	28	25.2	30.8
24	8	4.20	9.80	2G	32	29.4	35.0
26	12	8.40	14.0	2J	36	33.6	39.2
28	16	12.6	18.2	2L	40	37.8	43.4
2A	20	16.8	22.4	2N	44	42.0	47.6
2C	24	21.0	26.6	2Q	48	46.2	51.8

TOLERANCES:
X.=±0.35
X.X=±0.25
X.XX=±0.15
GENERAL ANGLE
X°=±2°
X.X°=±1°
X.XX°=±0.5°

iNCP

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PART NO:
IPCW420H xx 1AV

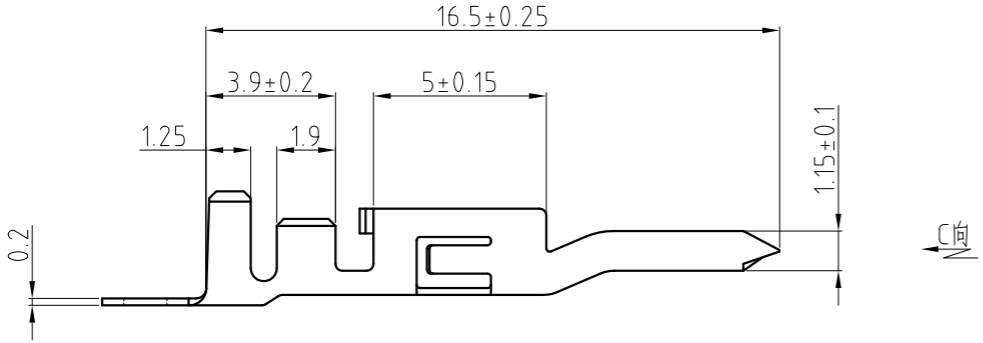
NAME:
4.2mm PH 2xnPin Connector Housings Male

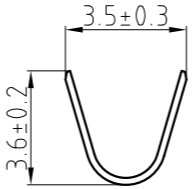
DRAWING NO
IPCW420H1AV

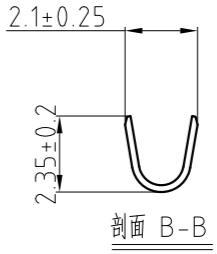
SHEET 1 OF 1

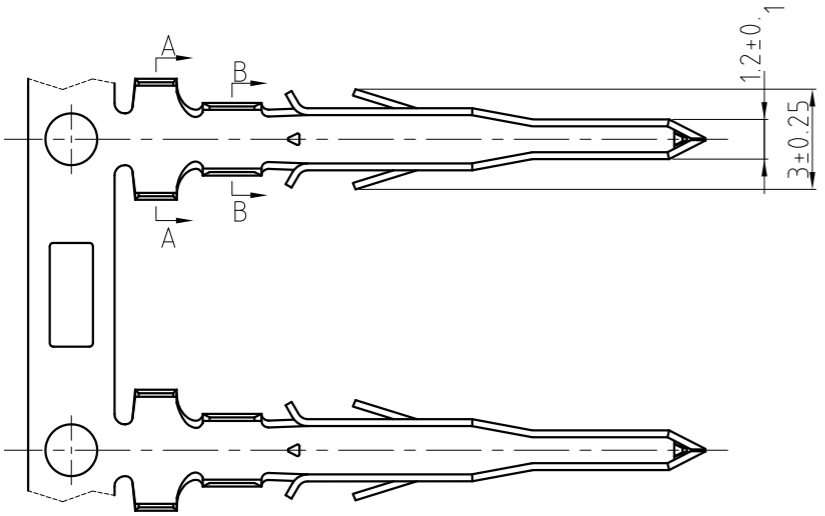
UNITS:mm SCALE:1:1 REV.01

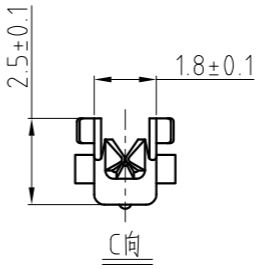
Engineer Drawing











SPECIFICATIONS:

1.Applicable:AWG #16～#20
2.Voltage Rating:250V AC/DC
3.Current Rating:9.0A
5.Withstand Voltage:1500V AC
6.Working Temperature:-25℃～+85℃
7.Insulation Resistance:≥1000MΩ(Min)
8.Contact Resistance:≤0.02Ω(Max)
9.Material:Brass/Phosphor Bronze 0.2mm
10.Contact Area Plating:Tin-Plated

IPCW 420 T 01 X X X X X
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①Series Type
②Pitch:4.20mm
③Connector Type
④Serial Code
⑤Material Code
⑥Other Code
⑦Terminal Typ:M:Male F:Female
⑧Other Code
⑨Plating:T=Tin

TOLERANCES:
<10:±0.20
10~30:±0.25
>10:±0.45
GENERAL ANGLE
X°=±3°
X.X°=±0.5°

iNCP

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PART NO:
IPCW420T01 xx M

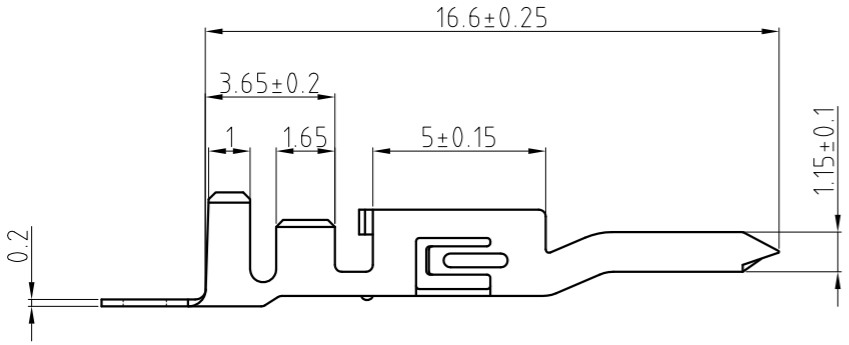
NAME:
4.2mmPH Crimp Terminal
Male AWG #16~#20

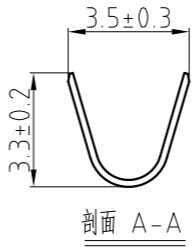
DRAWING NO
IPCW420T01MA

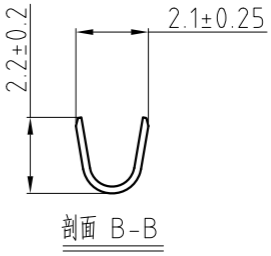
SHEET 1 OF 1

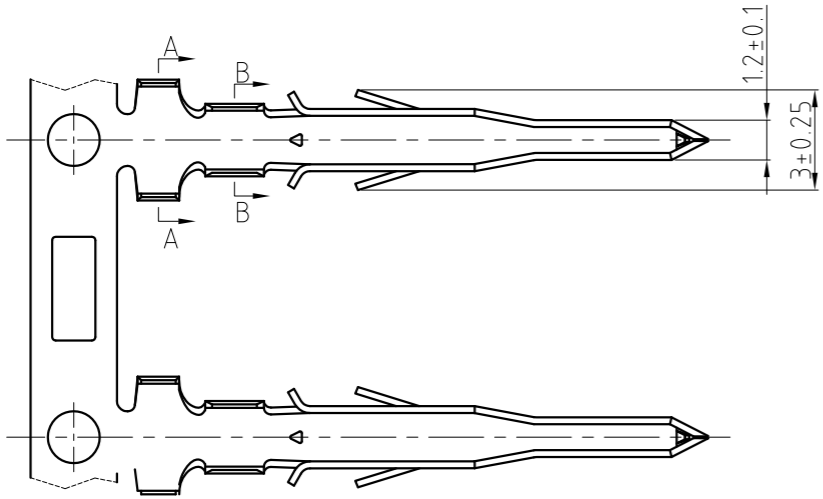
UNITS:mm SCALE:1:1 REV.01

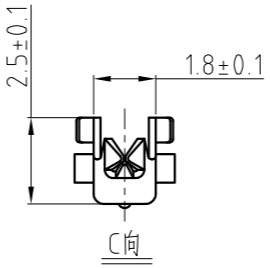
Engineer Drawing











SPECIFICATIONS:

1. Applicable:AWG #18～#24
2. Voltage Rating:250V AC/DC
3. Current Rating:5.0A
5. Withstand Voltage:1500V AC
6. Working Temperature:-25℃～+85℃
7. Insulation Resistance:≥1000MΩ(Min)
8. Contact Resistance:≤0.02Ω(Max)
9. Material:Brass/Phosphor Bronze 0.2mm
10. Contact Area Plating:Tin-Plated

IPCW 420 T 02 X X X X X
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①Series Type
②Pitch:4.20mm
③Connector Type
④Serial Code
⑤Material Code
⑥Other Code
⑦Terminal Typ:M:Male F:Female
⑧Other Code
⑨Plating:T=Tin

TOLERANCES:
<10:±0.20
10~30:±0.25
>10:±0.45
GENERAL ANGLE
X°=±3°
X.X°=±0.5°

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PART NO:
IPCW420T02 xx M

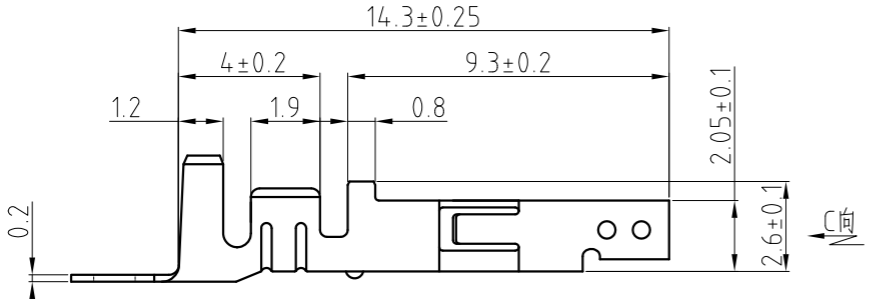
NAME:
4.2mmPH Crimp Terminal
Male AWG #18~#24

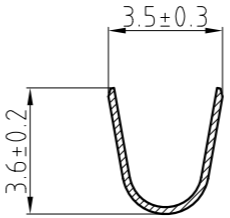
DRAWING NO
IPCW420T02MA

SHEET 1 OF 1

UNITS:mm SCALE:1:1 REV.01

Engineer Drawing





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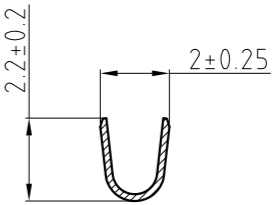

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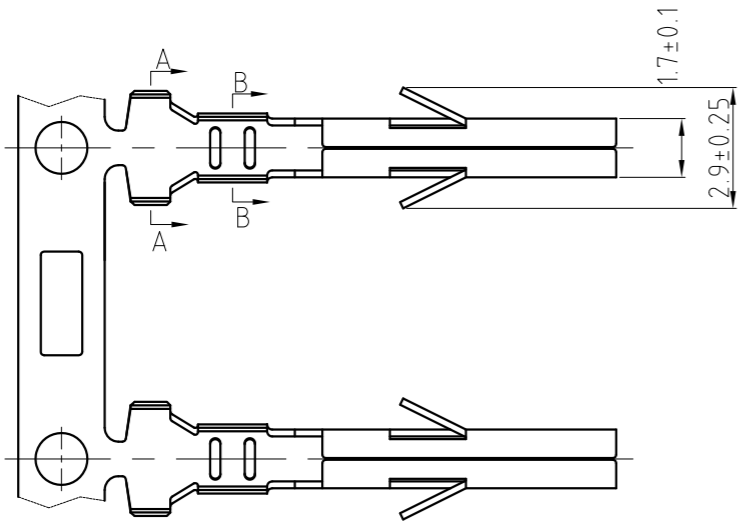

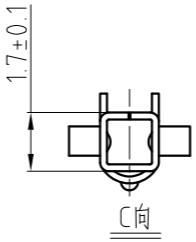

SPECIFICATIONS:

1.Applicable:AWG #16～#20
2.Voltage Rating:250V AC/DC
3.Current Rating:9.0A
5.Withstand Voltage:1500V AC
6.Working Temperature:-25℃～+85℃
7.Insulation Resistance:≥1000MΩ(Min)
8.Contact Resistance:≤0.02Ω(Max)
9.Material:Brass/Phosphor Bronze 0.2mm
10.Contact Area Plating:Tin-Plated

IPCW	420	T	01	X	X	X	X	X
①	②	③	④	⑤	⑥	⑦	⑧	⑨

①Series Type
②Pitch:4.20mm
③Connector Type
④Serial Code
⑤Material Code
⑥Other Code
⑦Terminal Typ:M:Male F:Female
⑧Other Code
⑨Plating:T=Tin

TOLERANCES:
<10:±0.20
10~30:±0.25
>10:±0.45
GENERAL ANGLE
X°=±3°
X.X°=±0.5°

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PART NO:
IPCW420T01 xx F

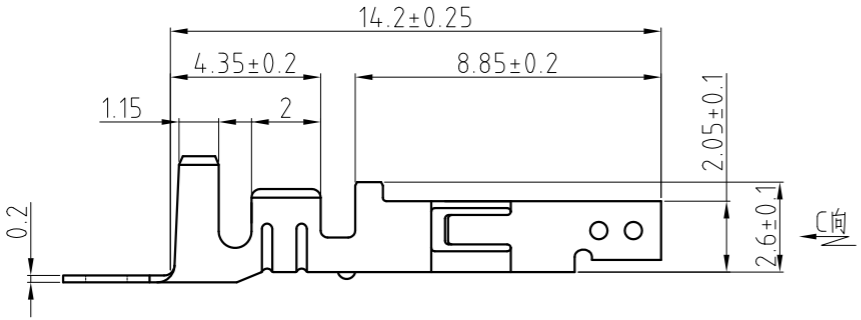
NAME:
4.2mmPH Crimp Terminal
Female AWG #16~#20

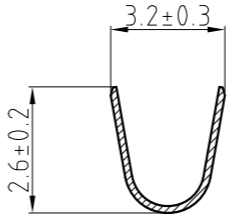
DRAWING NO
IPCW420T01FA

SHEET 1 OF 1

UNITS:mm SCALE:1:1 REV.01

Engineer Drawing





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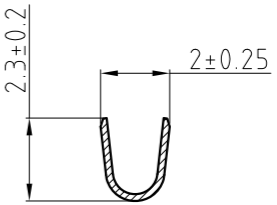

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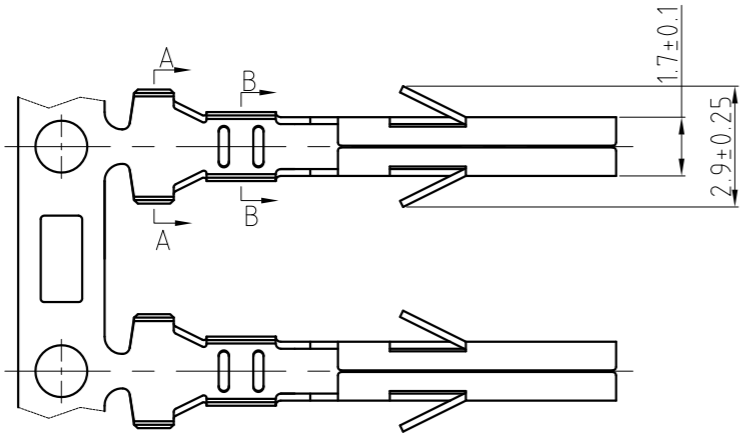

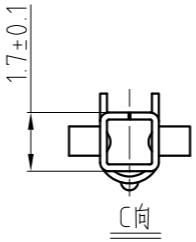

SPECIFICATIONS:

1. Applicable:AWG #18～#24
2. Voltage Rating:250V AC/DC
3. Current Rating:5.0A
5. Withstand Voltage:1500V AC
6. Working Temperature:-25℃～+85℃
7. Insulation Resistance:≥1000MΩ(Min)
8. Contact Resistance:≤0.02 Ω(Max)
9. Material:Brass/Phosphor Bronze 0.2mm
10. Contact Area Plating:Tin-Plated

IPCW	420	T	02	X	X	X	X	X
①	②	③	④	⑤	⑥	⑦	⑧	⑨

①Series Type
②Pitch:4.20mm
③Connector Type
④Serial Code
⑤Material Code
⑥Other Code
⑦Terminal Typ:M:Male F:Female
⑧Other Code
⑨Plating:T=Tin

TOLERANCES:
<10:±0.20
10~30:±0.25
>10:±0.45
GENERAL ANGLE
X°=±3°
X.X°=±0.5°

iNCP

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PART NO:
IPCW420T02 xx F

NAME:
4.2mmPH Crimp Terminal
Female AWG #18~#24

DRAWING NO
IPCW420T02FA

SHEET 1 OF 1

UNITS:mm SCALE:1:1 REV.01