

Engineer Drawing

SPECIFICATIONS:

- Poies: 2~24
- Applicable: AWG #24~#16
- Voltage Rating: 300V DC/AC
- Current Rating: 9.0A
- Withstand Voltage: 1500V AC
- Working Temperature: -25°C ~ +85°C
- Insulation Resistance: $\geq 1000\text{M}\Omega(\text{Min})$
- Contact Resistance: $\leq 20\text{M}\Omega(\text{Max})$
- Material: Nylon UL 94V-2(0)/Brass

IPCW 420 W XX X X XX X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series Type ⑤ Material Code

② Pitch: 4.20mm ⑥ Colour Code

③ Connector Type ⑦ Serial Code

④ Pin Code: See Table 1 ⑧ Other Code

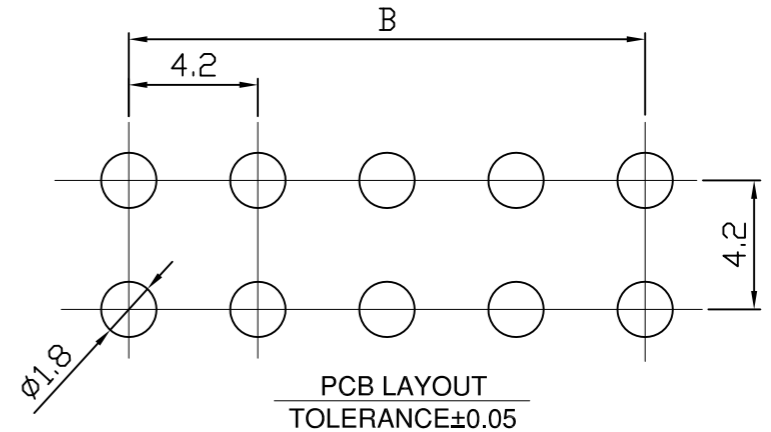
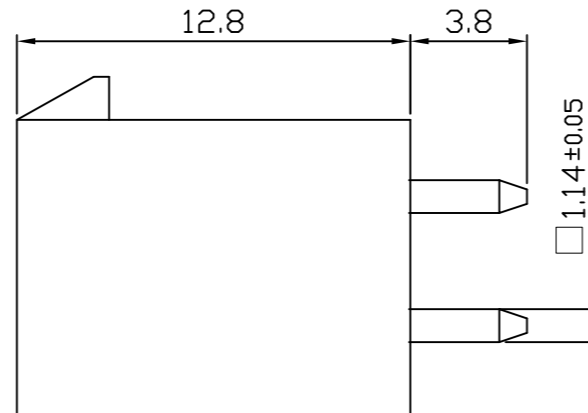
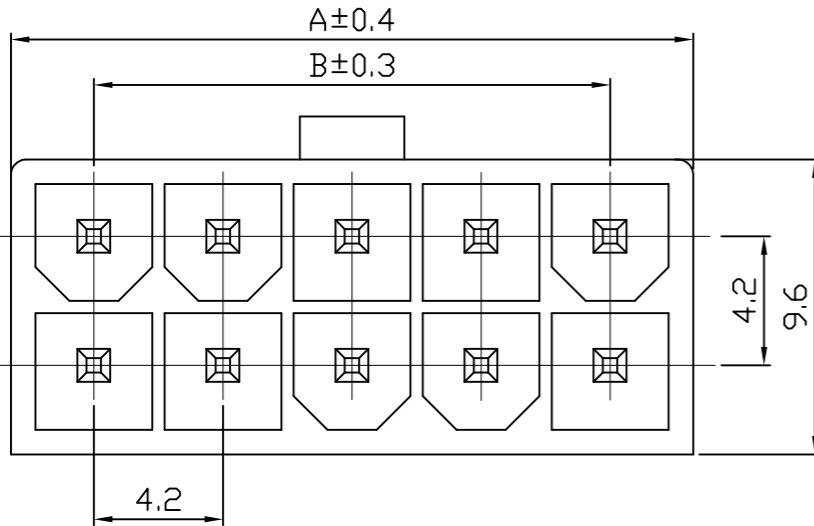


Table 1

Pin Code	Circuits	Dimensions(mm)	
		A	B
21	2	5.4	/
22	4	9.6	4.2
23	6	13.8	8.4
24	8	18.0	12.6
25	10	22.2	16.8
26	12	26.6	21.0
27	14	30.6	25.2
28	16	34.8	29.4
29	18	39.0	33.6
2A	20	43.2	37.8
2B	22	47.4	42.0
2C	24	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°

NCP

www.i-ncp.com

PART NO:
IPCW420W xx 0AV

DRAWING NO
IPCW420W0AV

SHEET 1 OF 1

NAME:
4.2mmPH 2xnPin 180° Wire
to Board

UNITS:mm SCALE:1:1 REV.02

Engineer Drawing

SPECIFICATIONS:

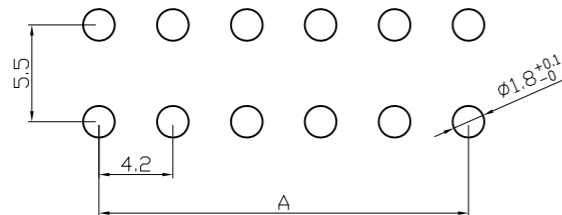
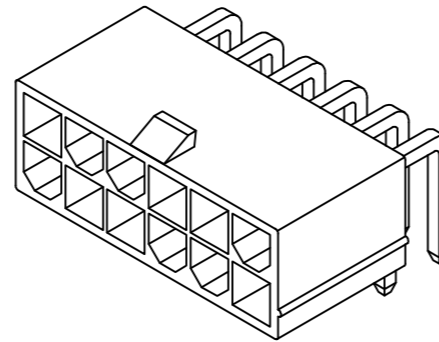
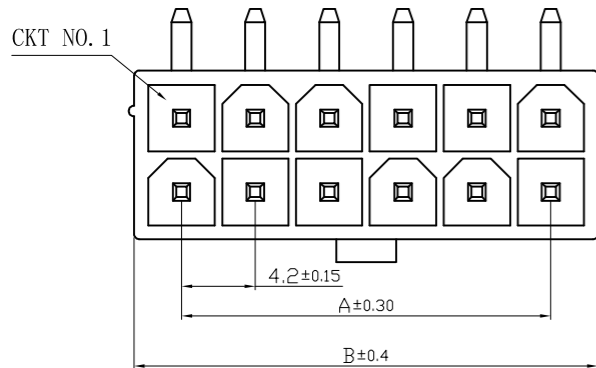
- 1.Poies:2~24
- 2.Applicable:AWG #24~#16
- 3.Withstand Voltage:1500V AC
- 4.Working Temperature:-25℃~+85℃
- 5.Insulation Resistance:≥1000MΩ(Min)
- 6.Material:Nylon UL 94V-0(2)/Brass:1.14mm

IPCW 420 W XX X X XX X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

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

CKT NO. 1



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
21	2	/	5.40	27	14	25.2	30.6
22	4	4.20	9.60	28	16	29.4	34.8
23	6	8.40	13.8	29	18	33.6	39.0
24	8	12.6	18.0	2A	20	37.8	43.2
25	10	16.8	22.2	2B	22	42.0	47.4
26	12	21.0	26.4	2C	24	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°

NCP

www.i-ncp.com

PART NO:
IPCW420W xx 0AR
DRAWING NO
IPCW420W0AR

NAME:
4.2mmPH 2xnPin 90° Wire
to Board

SHEET 1 OF 1

UNITS:mm SCALE:1:1 REV.02

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

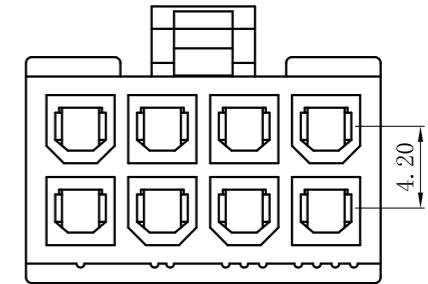
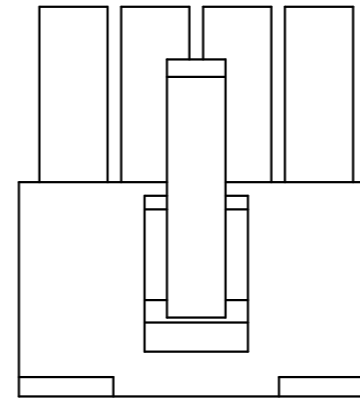
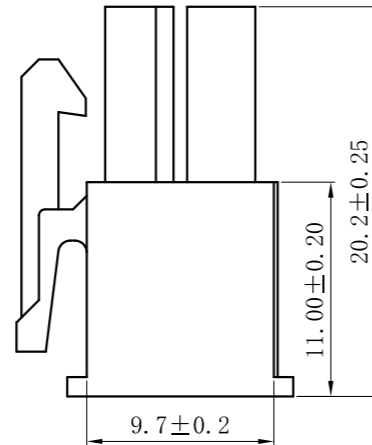
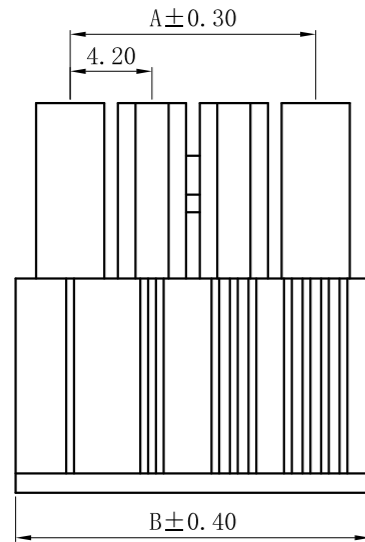
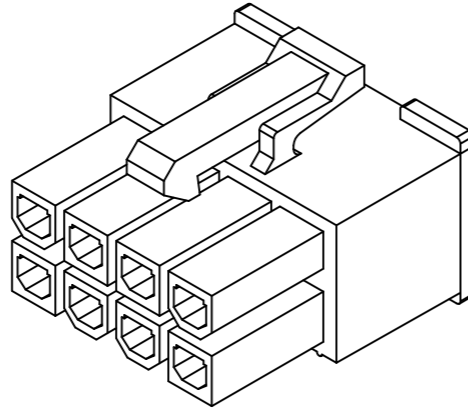
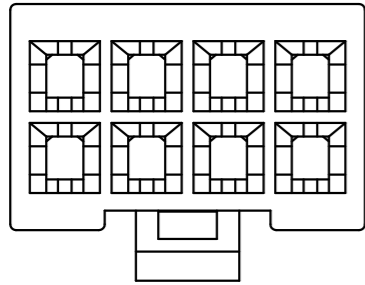


Table 1

Pin Code	Circuits	Dimensions(mm)		Pin Code	Circuits	Dimensions(mm)	
		A	B			A	B
21	2	/	5.60	27	14	25.2	30.8
22	4	4.20	9.80	28	16	29.4	35.0
23	6	8.40	14.0	29	18	33.6	39.2
24	8	12.6	18.2	2A	20	37.8	43.4
25	10	16.8	22.4	2B	22	42.0	47.6
26	12	21.0	26.6	2C	24	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°

NCP

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PART NO:
IPCW420H xx 1A0

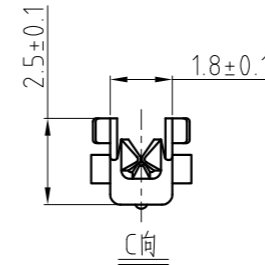
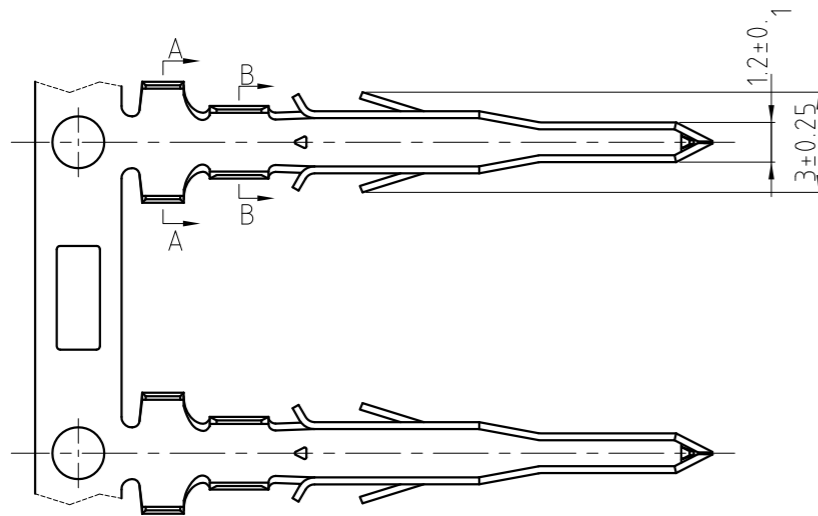
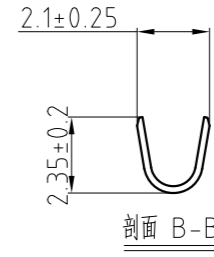
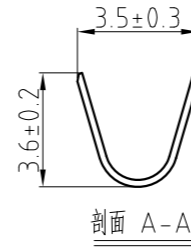
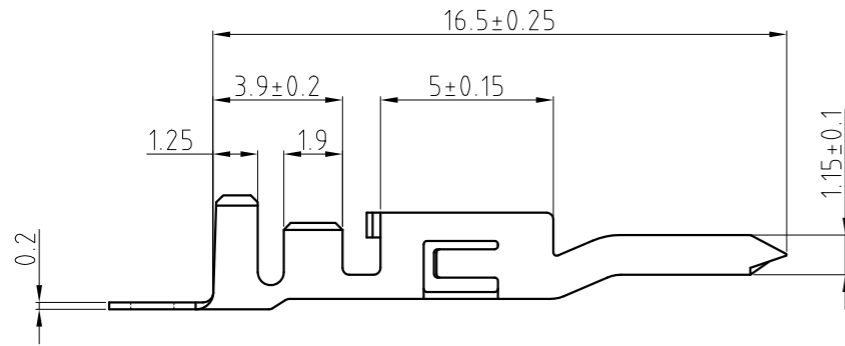
NAME:
4.2mm PH 2xnPin Connector
Housings Male

DRAWING NO
IPCW420H1A0

SHEET 1 OF 1

UNITS:mm SCALE:1:1 REV.02

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:≤0.02 Ω(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 | ⑤Material Code |
| ②Pitch:4.20mm | ⑥Other Code |
| ③Connector Type | ⑦Terminal Typ:M:Male F:Female |
| ④Serial Code | ⑧Other Code |
| | ⑨Plating:T=Tin |

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

NCP

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PART NO:
IPCW420T01 xx M

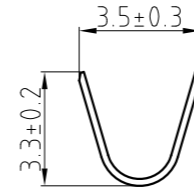
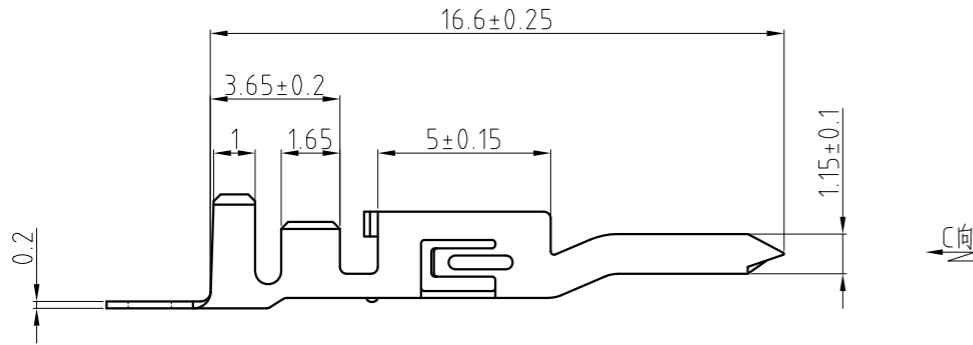
NAME:
4.2mmPH Crimp Terminal
Male AWG #16~#20

DRAWING NO
IPCW420T01MA

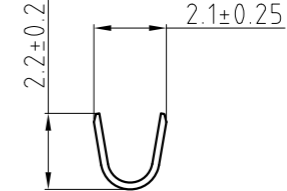
SHEET 1 OF 1

UNITS:mm SCALE:1:1 REV.02

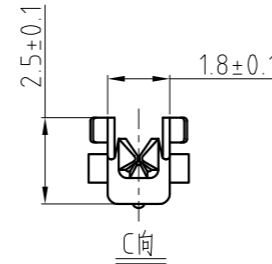
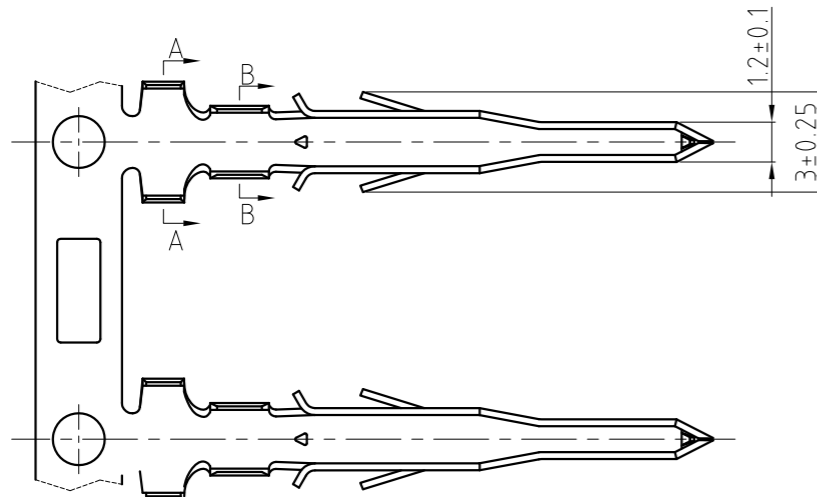
Engineer Drawing



剖面 A-A



剖面 B-B



剖面 C-C

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

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

NCP

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PART NO:
IPCW420T02 xx M

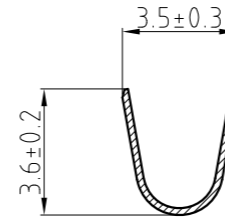
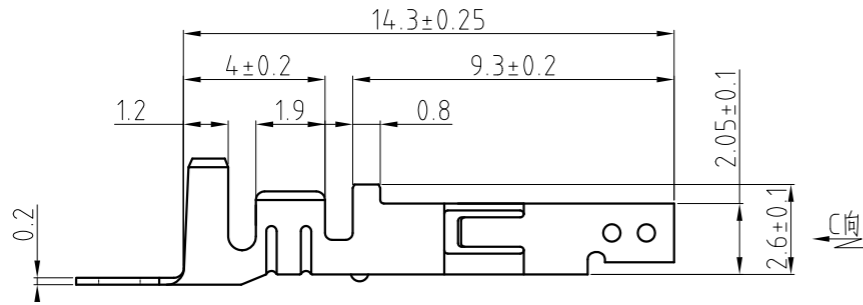
NAME:
4.2mmPH Crimp Terminal
Male AWG #18~#24

DRAWING NO
IPCW420T02MA

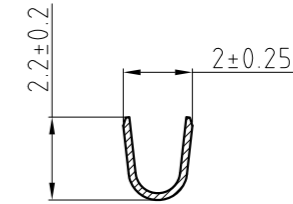
⌕ SHEET 1 OF 1

UNITS:mm SCALE:1:1 REV.02

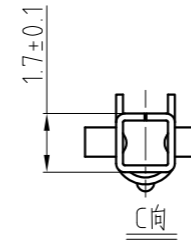
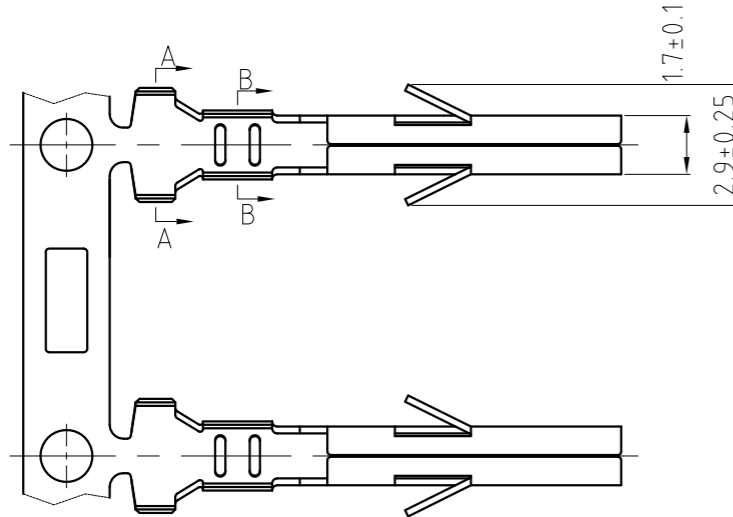
Engineer Drawing



剖面 A-A



剖面 B-B



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:≤0.02 Ω(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°

NCP

PART NO:
IPCW420T01 xx F

DRAWING NO
IPCW420T01FA

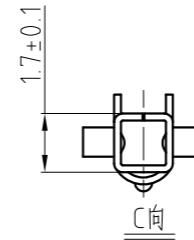
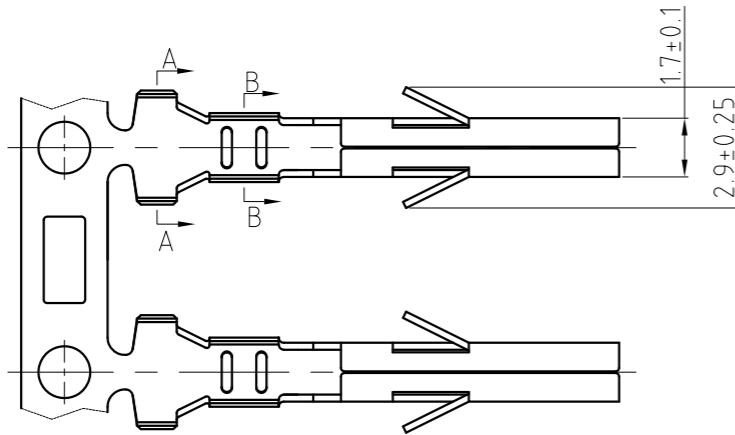
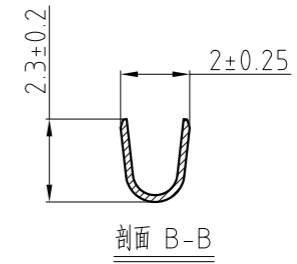
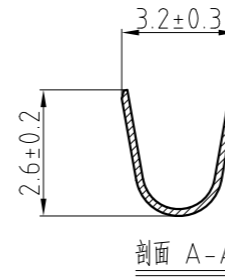
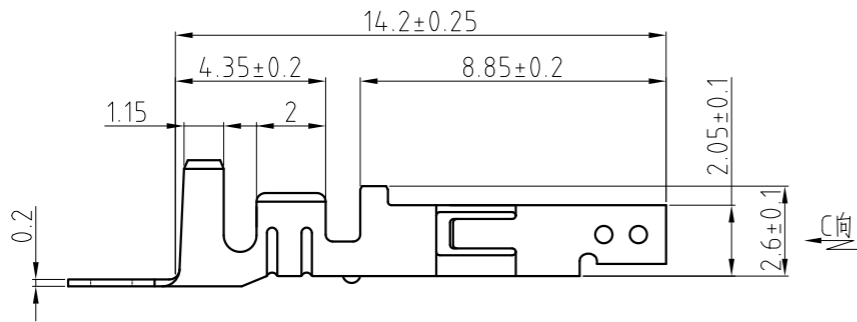
⊕ SHEET 1 OF 1

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

UNITS:mm SCALE:1:1 REV.02

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:≤0.02 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 | ⑤Material Code |
| ②Pitch:4.20mm | ⑥Other Code |
| ③Connector Type | ⑦Terminal Typ:M:Male F:Female |
| ④Serial Code | ⑧Other Code |
| | ⑨Plating:T=Tin |

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

NCP

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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.02