

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

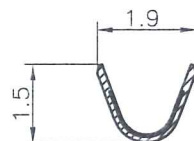
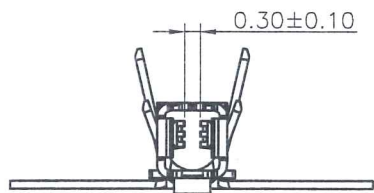
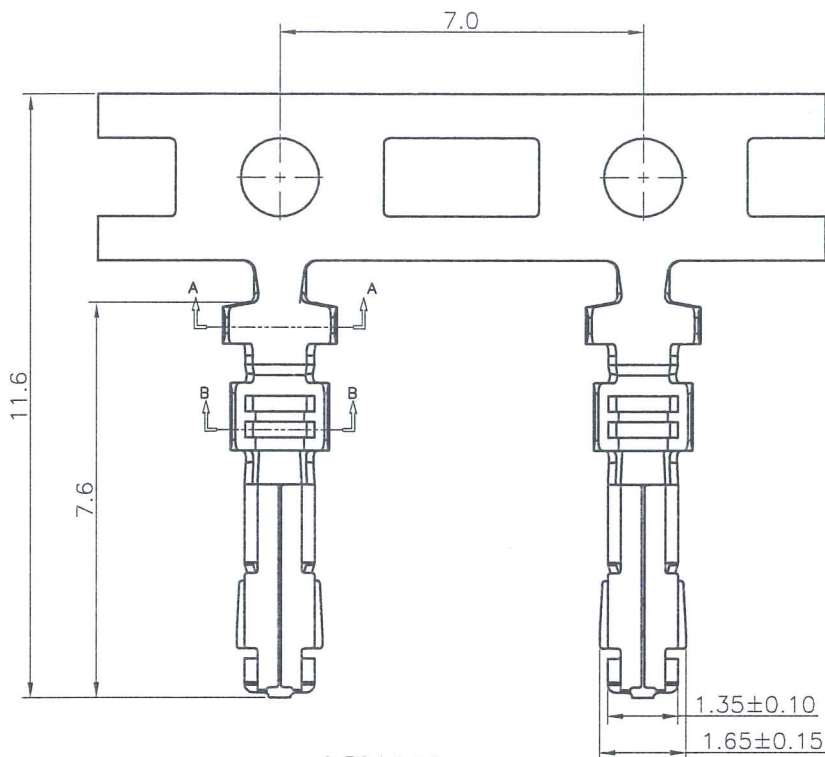
B

C

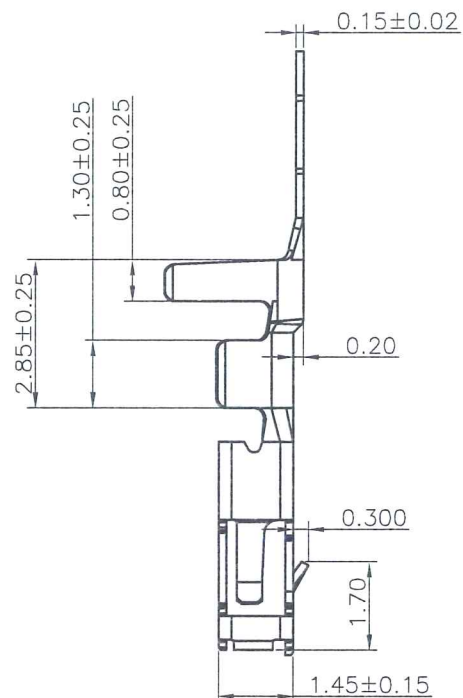
D

E

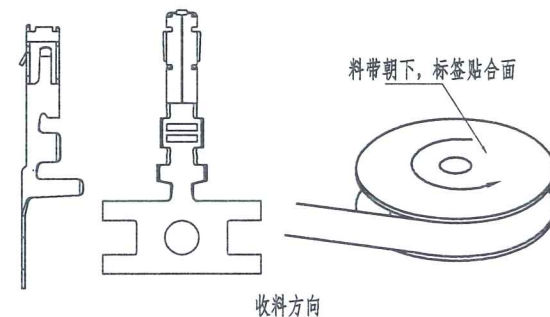
F



SECTION B-B



SECTION A-A



料带朝下, 标签贴合面

收料方向



The product using material and processing must conform to the "WI-PZ-142"HSF technical standard control requirements

G

Part No	Wire Range	Insulation O.D.	Material	Finish
12020TOP-2E-NK	AWG#22~#26	1.50mm Max	Copper alloy	Tin-plated

H

REV.	REVISION RECORD	DATE		GENERAL TOLERANCES		SCALE	NAME	DATE	PART NO.	DWG NO.	 TERMINAL&CONNECTORS			
X0	开发初版	21.12.07		LINEAR	ANGLES	1:1								
				0.0±0.25	X° REF±6°	APPROVED	Nelson	21.12.10	12020TOP-XX-XX	ENDE05	TITLE SPUD-001T-P0.5 端子			
				0.00±0.15	X° ±3°	DESIGNER	VM	21.12.07						
				0.000±0.08	X° X' ±2°	DRAWN	ZZK	21.12.07						
			UNIT: MM											
			SIZE: A4											

1

2

3

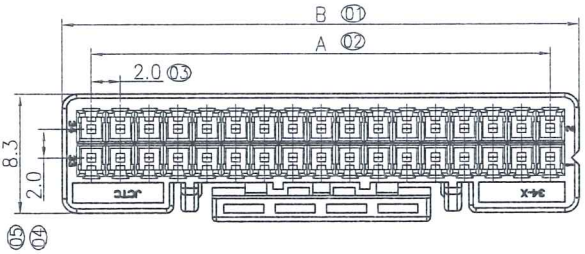
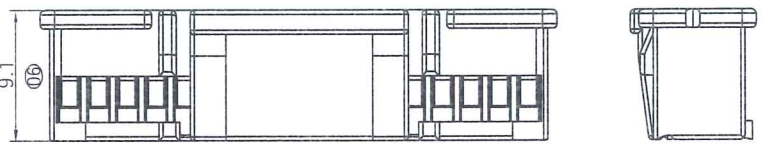
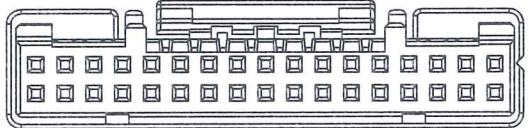
4

5

6

7

8

	1	2	3	4	5	6	7	8
A								A
B								B
C								C
D								D
E								E
F								F
G								G
H								H

Specifications:

Rated Voltage : 250V AC/DC

Rated Current : 3A AC,DC

Withstand Voltage : 800V AC Min.

After environmental test 500V AC Min

Insulation Resistance : 1000MΩ Min.

After environmental test 500MΩ Min.

Contact Resistance : 10mΩ Max

After environmental test :20mΩ Max

Temperature Range : -25°C~+85°C

Including temperature rise in applying electrical current

The product using material and processing must conform to the "WI-PZ-142"HSF technical standard control requirements

12020 H00-2XNP-L

Lock

No. of Circuits

H:Housing

configuration for 8~10 circuits.

configuration for 12~18 circuits.

Dimensional Ordering Information:

Circuits	Dimensions
Part No	A B
2x4P	6.0 10.0
2x5P	8.0 12.0
2x6P	10.0 14.0
2x7P	12.0 16.0
2x8P	14.0 18.0
2x9P	16.0 20.0
2x10P	18.0 22.0
2x11P	20.0 24.0
2x12P	22.0 26.0
2x13P	24.0 28.0
2x14P	26.0 30.0
2x15P	28.0 32.0
2x16P	30.0 34.0
2x17P	32.0 36.0
2x18P	34.0 38.0
2x19P	36.0 40.0
2x20P	38.0 42.0

REV.	REVISION RECORD	DATE		GENERAL TOLERANCES		SCALE 1:1	NAME	DATE	PART NO. 12020H00-2XNP-L	DWG NO. ENDE05	 TERMINAL&CONNECTORS			
XO	The new version file were released	2021.12.9		LINEAR	ANGLES	APPROVED		21.12.21						
				0.0±0.25	X° REF±6°	DESIGNER		21.12.21						
				0.00±0.15	X° ±3°	DRAWN	YZY	2021.12.21						
			UNIT: MM	0.00±0.15	X° ±3°				TITLE 2.0 Pitch Housing					
			SIZE: A4	0.000±0.08	X° X' ±2°						REV	XO	SHEET	1/1

1 2 3 4 5 6 7 8

A

B

C

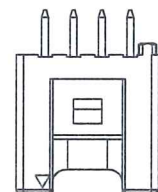
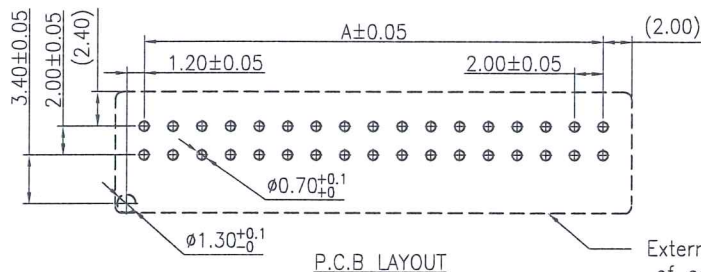
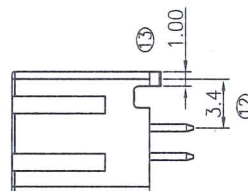
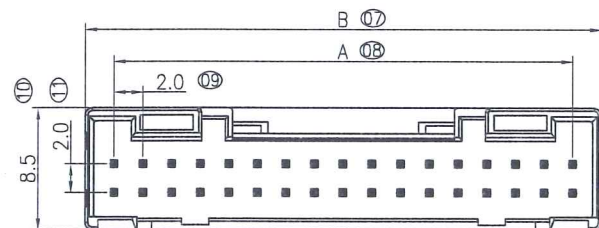
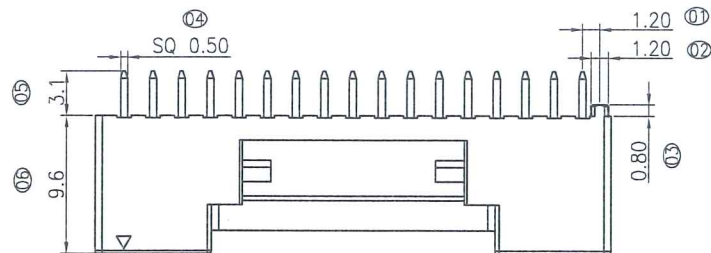
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E

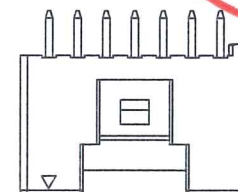
F

G

H



configuration for 8~10 circuits.



configuration for 12~18 circuits.

Specifications:
Rated Voltage : 250V AC/DC
Rated Current : 3A AC,DC
Withstand Voltage : 800V AC Min.
After environmental test 500V AC Min
Insulation Resistance : 1000MΩ Min.
After environmental test 500MΩ Min.
Contact Resistance : 10mΩ Max
After environmental test : 20mΩ Max
Temperature Range : -25°C~+85°C
Including temperature rise in applying electrical current
The product using material and processing
must conform to the "WI-PZ-142"HSF
technical standard control requirements

12020 W00-2XNP-2E-L-F-HF
HF:Halogen Free
With Post Type
Lock
Contact plated
No. of Circuits
W00 : Up Contact



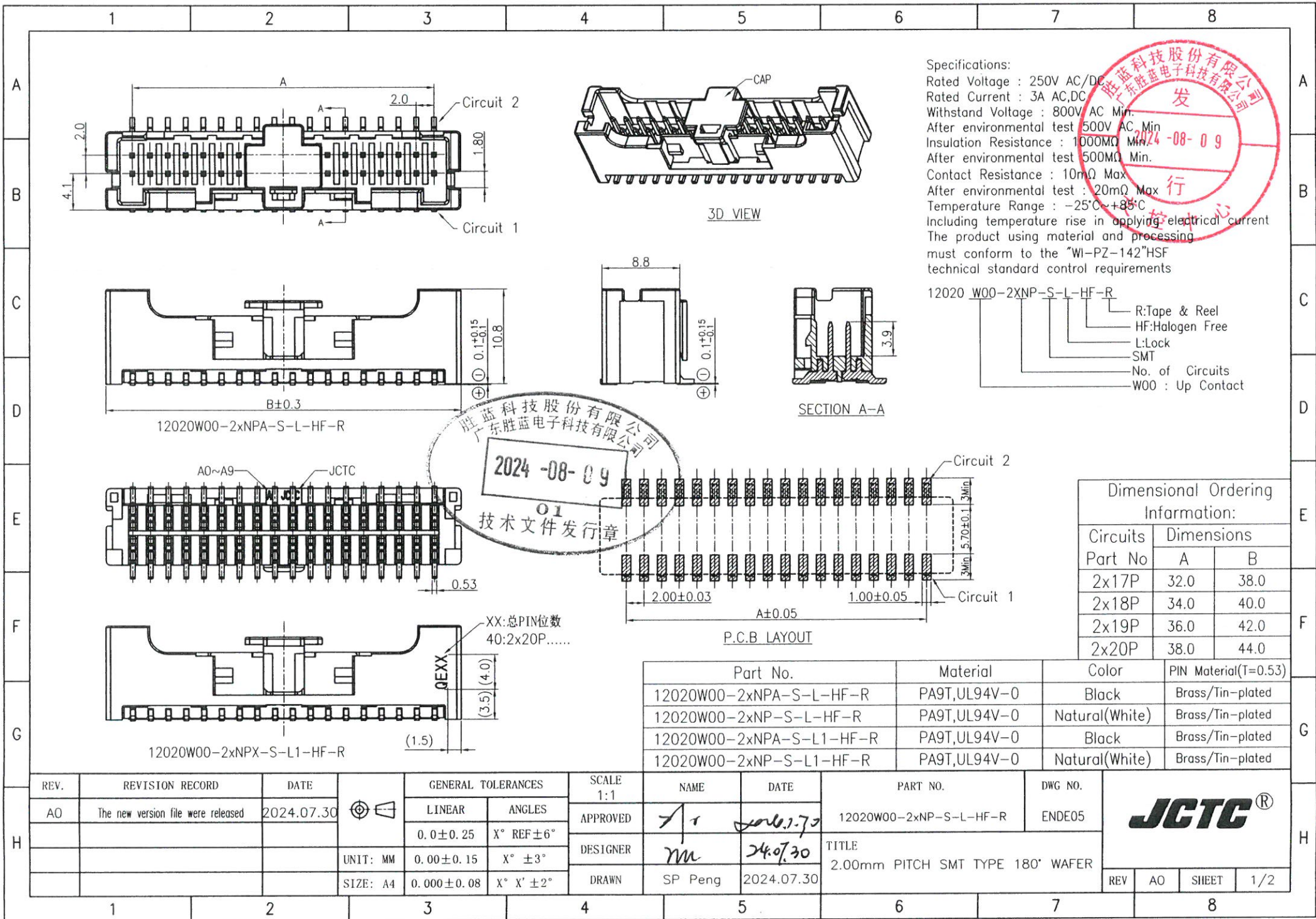
Dimensional Ordering Information:

Circuits	Dimensions	
	A	B
Part No		
2x4P	6.0	10.0
2x5P	8.0	12.0
2x6P	10.0	14.0
2x7P	12.0	16.0
2x8P	14.0	18.0
2x9P	16.0	20.0
2x10P	18.0	22.0
2x11P	20.0	24.0
2x11P	22.0	26.0
2x13P	24.0	28.0
2x14P	26.0	30.0
2x15P	28.0	32.0
2x16P	30.0	34.0
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2x18P	34.0	38.0
2x19P	36.0	40.0
2x20P	38.0	42.0

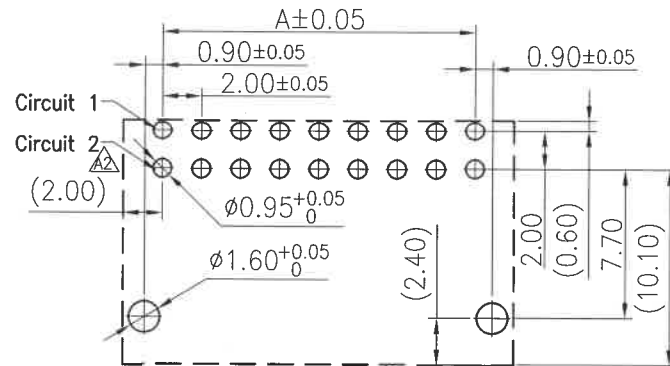
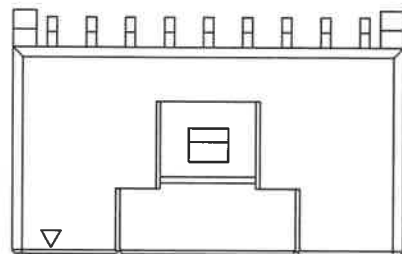
Part No.	Material	Color	PIN Material
12020W00-2xNPA-2E-L-F-HF	Nylon 66,UL94V-0	Black	Brass/Tin-plated
12020W00-2xNP-2E-L-F-HF	Nylon 66,UL94V-0	Natural(White)	Brass/Tin-plated

REV.	REVISION RECORD	DATE	UNIT: MM	GENERAL TOLERANCES		SCALE	NAME	DATE	PART NO.	DWG NO.	JCTC® TERMINAL&CONNECTORS			
XO	The new version file were released	2021.12.09		LINEAR	ANGLES	1:1								
				0.0±0.25	X° REF±6°	APPROVED	Nelson	21.12.21	12020W00-2XNP-2E-L-F-HF	ENDE05	TITLE 2.00mm PITCH Dip TYPE 180° WAFER			
				0.00±0.15	X° ±3°	DESIGNER	VM	21.12.21						
				0.000±0.08	X° X' ±2°	DRAWN	YZY	2021.12.21			REV	XO	SHEET	1/1

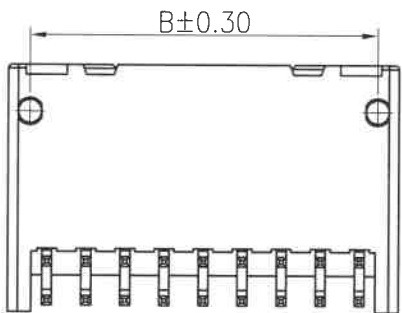
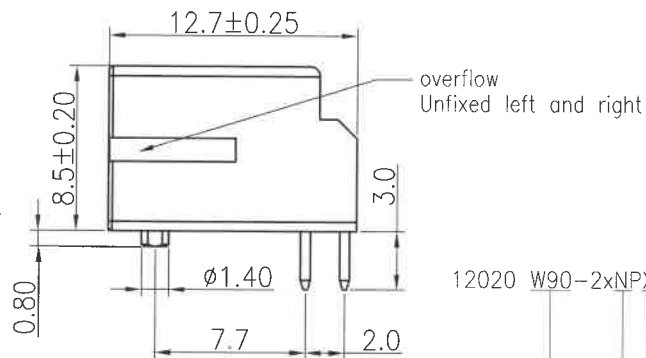
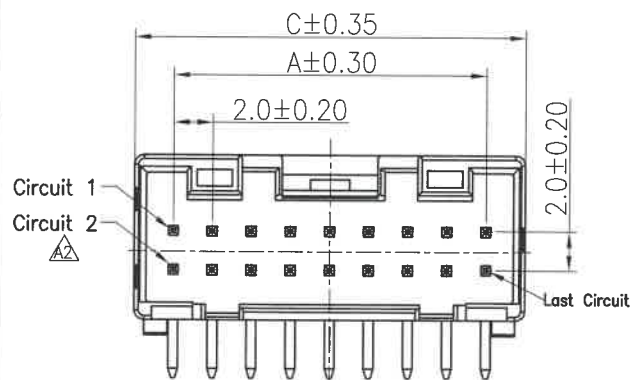
1 2 3 4 5 6 7 8



RoHS 2.0+HF



P.C.B LAYOUT

External shape
of connector

Specifications:

Rated Voltage : 250V AC/DC

Rated Current : 3A AC,DC

Withstand Voltage : 800V AC Min.

After environmental test 500V AC Min

Insulation Resistance : 1000MΩ Min.

After environmental test 500MΩ Min.

Contact Resistance : 10mΩ Max

After environmental test : 20mΩ Max

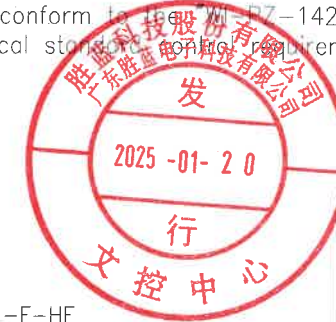
Temperature Range : -25°C~+85°C

Including temperature rise in applying electrical current

The product using material and processing

must conform to GB/T 142"HSF

technical standards requirements

Dimensional Ordering
Information:

Circuits Part No	Dimensions		
	A	B	C
2x4P	6.0	7.8	10.0
2x5P	8.0	9.8	12.0
2x6P	10.0	11.8	14.0
2x7P	12.0	13.8	16.0
2x8P	14.0	15.8	18.0
2x9P	16.0	17.8	20.0
2x10P	18.0	19.8	22.0
2x11P	20.0	21.8	24.0
2x12P	22.0	23.8	26.0
2x13P	24.0	25.8	28.0
2x14P	26.0	27.8	30.0
2x15P	28.0	29.8	32.0
2x16P	30.0	31.8	34.0
2x17P	32.0	33.8	36.0
2x18P	34.0	35.8	38.0
2x19P	36.0	37.8	40.0
2x20P	38.0	39.8	42.0

12020 W90-2xNPX-XX-L-F-HF

HF:Halogen Free

With Post Type

Lock

Contact plated

Color A=Black

No code=White

No. of Circuits

W90 : 90°

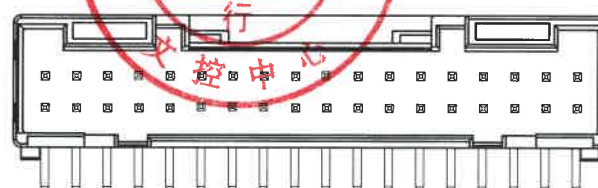
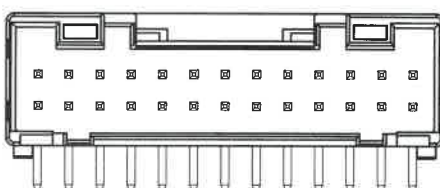
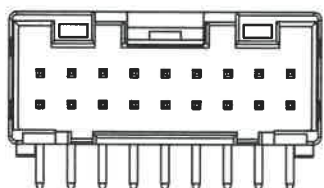
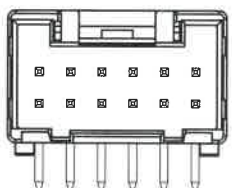
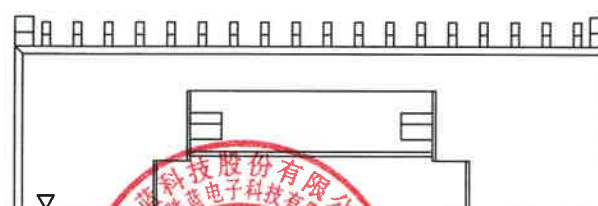
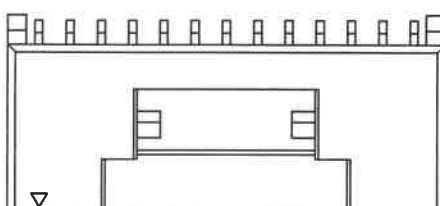
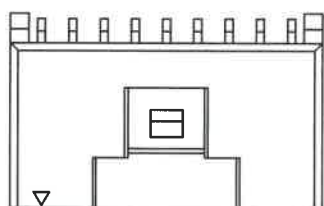
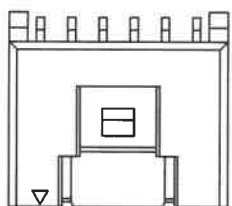
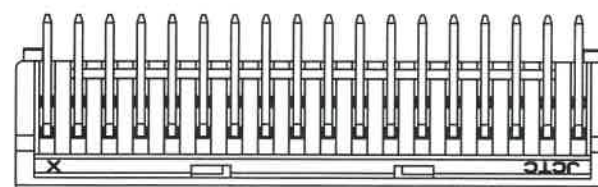
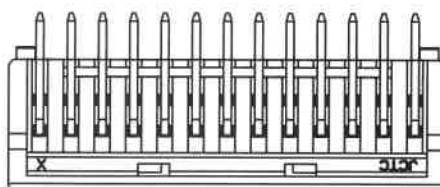
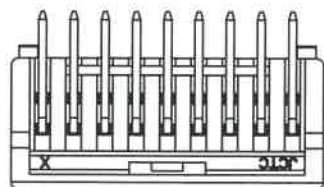
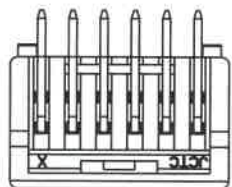
Part No.	Material	Color	PIN Material
12020W90-2xNPA-2E-L-F-HF	PA66 UL94-V0	Black	Brass/Tin-plated
12020W90-2xNP-2E-L-F-HF	PA66 UL94-V0	Natural(White)	Brass/Tin-plated

REV.	REVISION RECORD	DATE	UNIT: MM	GENERAL TOLERANCES		SCALE	NAME	DATE	PART NO.	DWG NO.
A0	新版本发行	2023.05.31		LINEAR	ANGLES	1:1	APPROVED	25-1-17	12020W90-2xNPX-XX-L-F-HF	ENDE05
A1	依ECN20230613523变更包规	2023.06.13	SIZE: A4	0.0±0.25	X° REF±6°	DRAWN	DESIGNER	25.01.17	2.00mm PITCH Dip TYPE 90° WAFER	
A2	依ECR202501161757变A2处	2025.01.17		0.00±0.15	X° ±3°					
				0.000±0.08	X° X' ±2°		SP Peng	2025/1/17		

JCTC®

REV A2 SHEET 1/3

RoHS 2.0+HF



2x6Pin

2x9Pin

2x13Pin

2x18Pin

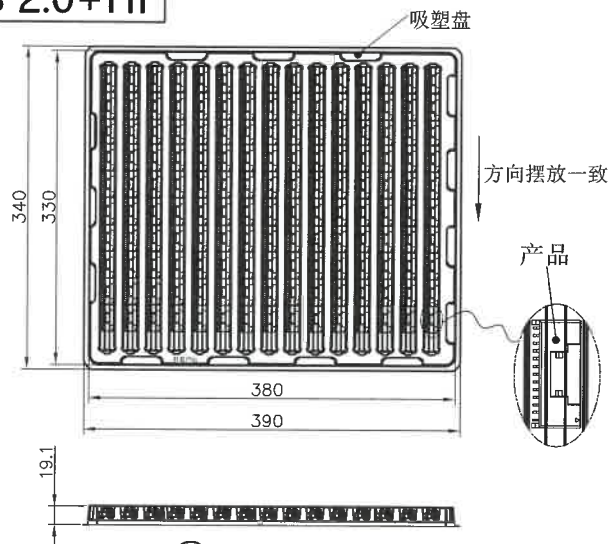
REV.	REVISION RECORD	DATE		GENERAL TOLERANCES		SCALE 1:1	NAME	DATE	PART NO.	DWG NO.				
A0	新版本发行	2023.05.31		LINEAR	ANGLES	APPROVED	J	25.1.17	12020W90-2xNPX-XX-L-F-HF	ENDE05				
A1	依ECN20230613523变更包规	2023.06.13		0.0±0.25	X° REF±6°	DESIGNER	ym	25.1.17	TITLE 2.00mm PITCH Dip TYPE 90° WAFER					
A2	依ECR202501161757变A2处	2025.01.17		UNIT: MM	0.00±0.15							X° ±3°		
			SIZE: A4	0.000±0.08	X° X'±2°	DRAWN	SP Peng	2025/1/17			REV	A2	SHEET	2/3

JCTC®

TITLE	2. 00mm PITCH Dip TYPE 90° WAFER
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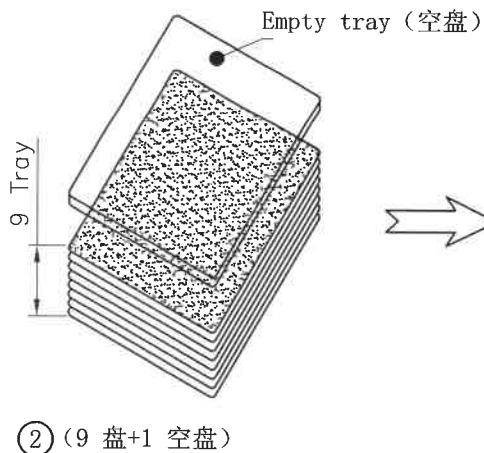
REV	A2	SHEET	2/3
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RoHS 2.0+HF

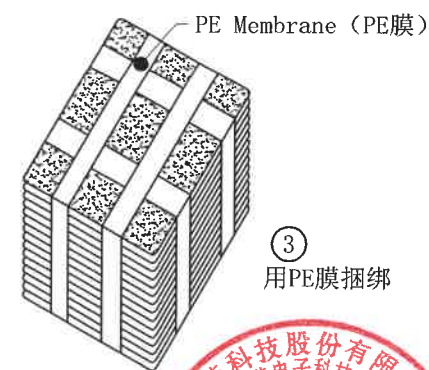


① 产品装盘

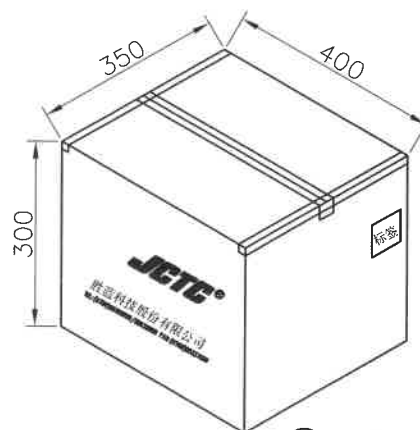
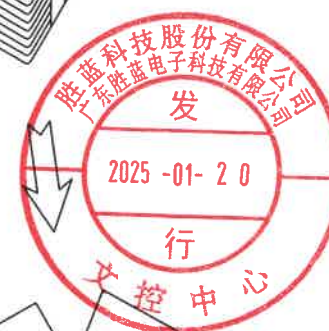
Number of Contacts	pcs/Tray	pcs/Box
2x4P	435	8700
2x5P	360	7200
2x6P	315	6300
2x7P	270	5400
2x8P	240	4800
2x9P	210	4200
2x10P	195	3900
2x11P	180	3600
2x12P	165	3300
2x13P	150	3000
2x14P	135	2700
2x15P	135	2700
2x16P	120	2400
2x17P	120	2400
2x18P	105	2100
2x19P	105	2100
2x20P	105	2100



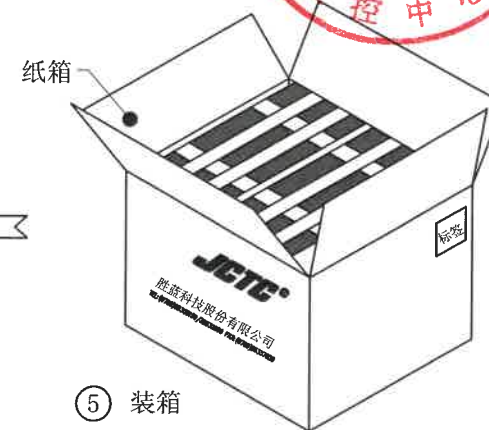
② (9 盘+1 空盘)



③ 用PE膜捆绑



⑥ 封箱



⑤ 装箱

REV.	REVISION RECORD	DATE		GENERAL TOLERANCES		SCALE 1:1	NAME	DATE	PART NO.	DWG NO.				
A0	新版本发行	2023.05.31		LINEAR	ANGLES	APPROVED	J-	25.1.17	12020W90-2xNPX-XX-L-F-HF	ENDE05				
A1	依ECN20230613523变更包规	2023.06.13		0.0±0.25	X° REF±6°									
A2	依ECR202501161757变△2处	2025.01.17		UNIT: MM	0.00±0.15	X° ±3°	DESIGNER	nm	25.01.17	TITLE 2.00mm PITCH Dip TYPE 90° WAFER				
				SIZE: A4	0.000±0.08	X° X' ±2°	DRAWN	SP Peng	2025/1/17					
											REV	A2	SHEET	3/3