

# HSF

**NOTES:**

Rated Current: 3.0AMP.(20°C,1\*2P-1\*15P)  
 2.0AMP.(20°C,1\*16P-1\*40P)  $\Delta A4$   
 Contact Resistance: 20m $\Omega$  Max.  
 Withstand Voltage: 500V AC/DC  
 Insulation Resistance: 1000M $\Omega$  Min.  
 Operation Temperature: -40°C to +125°C(Gold Plating)  
 -40°C to +105°C(Tin Plating)  $\Delta A3$   $\Delta A4$   
 Contact Material: Copper Alloy  
 Contact Plating: Au or Sn Over 30u" Min Ni  $\Delta A4$   
 Insulator Material: PA9T+G.F UL94V-0 BK  $\Delta A4$

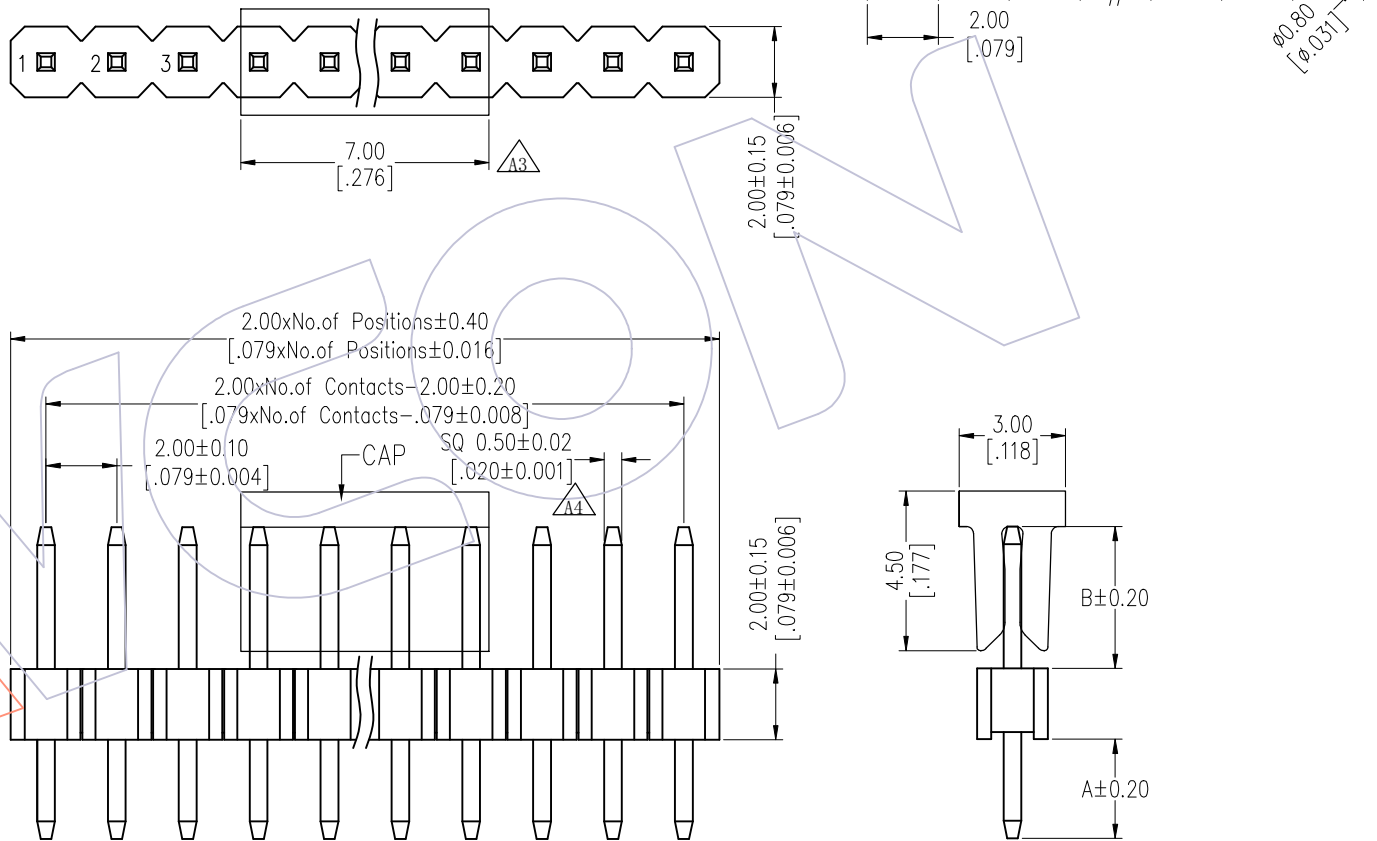
## Ordering Information

1220-1 1 XX XX S XXX C X XX  $\Delta A1$

Plastic Layer  
 Plastic Row  
 No. of Pins  
 Per Row: 02-40  
 Contact Plating  
 G0=Gold Flash  
 G3=10u"Au, BG3=8u"PdNi+2u"Au  
 G4=15u"Au, BG4=13u"PdNi+2u"Au  
 G5=30u"Au, BG5=28u"PdNi+2u"Au  
 S0=Gold Flash/Tin  
 S3=10u"Au/Sn, P3=8u"PdNi+2u"Au/Sn  
 S4=15u"Au/Sn, P4=13u"PdNi+2u"Au/Sn  
 S5=30u"Au/Sn, P5=28u"PdNi+2u"Au/Sn  
 SN=Bright Tin  
 SM=Matte Tin  
 Series No.  
 01-99  
 Packing  
 0=PE Bag  
 T=Tube  
 R=Tape&Reel+CAP  
 Insulator Material  
 C=PA9T  
 Pin Length  
 L(See Table)  
 Type:  
 S:S/T

Item	Pin Length	A	B	Mating
Standard	7.3	2.80	2.5	2220T/2221/2228
	7.8		3.0	2227T/2228T/2245
	8.3		3.5	2235/2240N/2243C
	8.8		4.0	2240/2243/2245T/2263/2272
Standard	6.5	2.0 (THR)	2.5	2220T/2221/2228
	7.0		3.0	2227T/2228T/2245
	7.5		3.5	2235/2240N/2243C
	8.0		4.0	2240/2243/2245T/2263/2272
Alternate				

Recommended P.C.B Layout (Top Side)  
 (PCB BOARD TOLERANCE  $\pm 0.05$ )  
 (PCB Thickness: T=1.60m)



REV	DATE	MODIFICATION DESCRIPTION	CHANGE	DIM	TOL	APPROVE	DATE	PROJ.	PART NO.	Fit	TITLE:
A4	2025/08/04	Standardization Drawing	CP			DRAW	DATE	SCALE	1220-11XXXXSXXXCXXX $\Delta A1$	mm	
A3	2019/07/20	Modify the CAP	Ding	x.x	$\pm 0.40$	CP	2025/08/04	UNIT			
A2	2018/06/25	Add the CAP	Ding	x.xx	$\pm 0.25$	CHECK	DATE	SIZE		A4	
A0	2012/04/26	NEW	William Chen	x.xxx	$\pm 0.15$	TANG	2025/08/04	SHEET		1/4	PH2.0 SINGLE ROW 180°H=2.0
				Angle	$\pm 3^\circ$	APPROVE	DATE				Customer NO.
						Steven Zhao	2025/08/04	PROJ.			

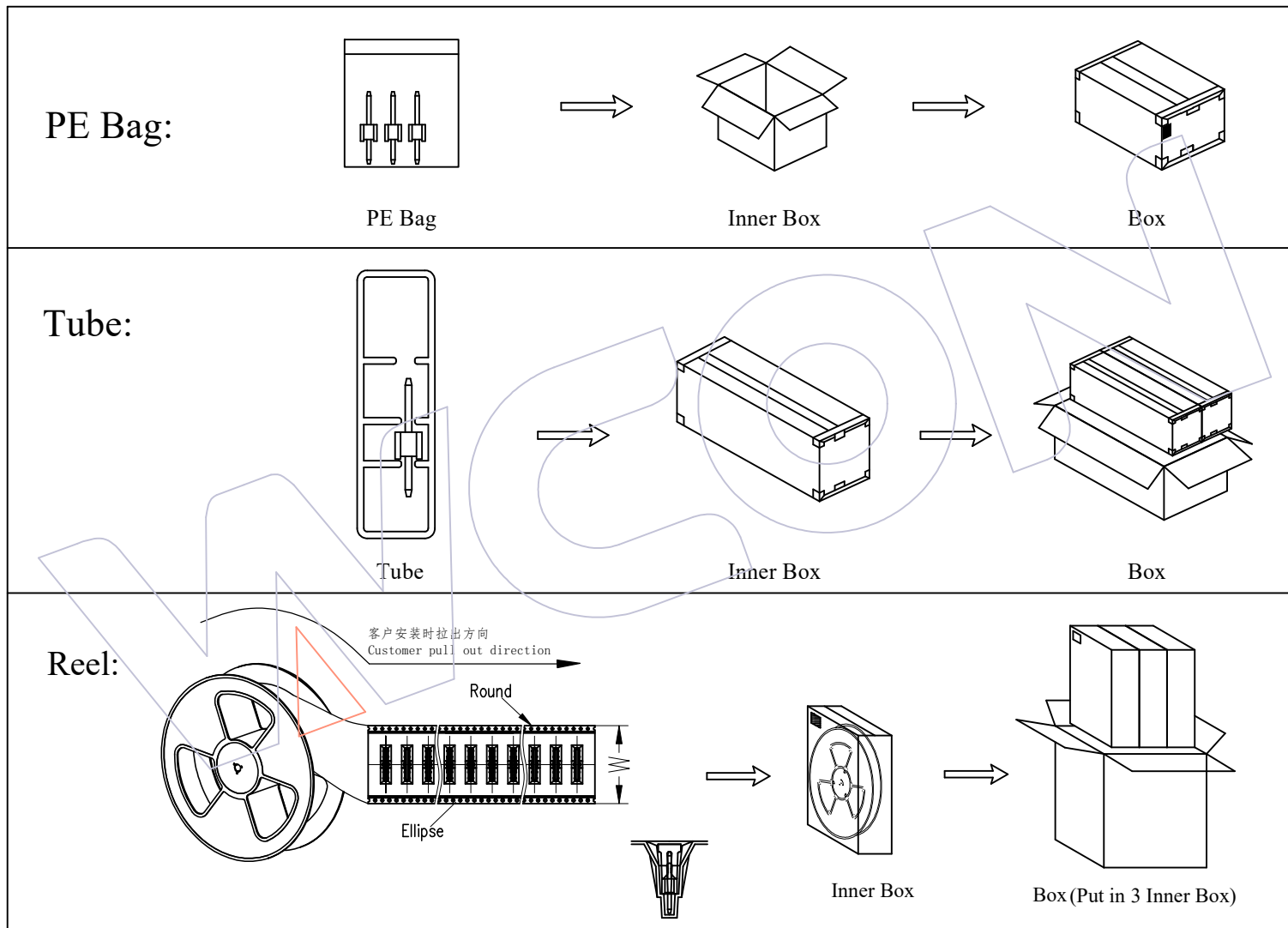
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**HSF**

**Packing:**



A4	2025/08/04	Standardization Drawing	CP	OPERATION	DRAW	DATE	SCALE	Fit	PART NO. 1220-11XXXXXXXCXXX
A3	2019/07/20	Modify the CAP	Ding	x.X ±0.40	CP	2025/08/04	UNIT	mm	
A2	2018/06/25	Add the CAP	Ding	x.XX ±0.25	CHECK	DATE	SIZE	A4	TITLE: PH2.0 SINGLE ROW 180°H=2.0
A0	2012/04/26	NEW	William Chen	x.XXX ±0.15	TANG	2025/08/04	SHEET	2/4	
REV	DATE	MODIFICATION DESCRIPTION	CHANGE	Angle ± 3°	APPROVE	DATE	PROJ.		Customer NO.
				DIM TOL	Steven Zhao	2025/08/04			

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## Packaging Quantity Refers To The Following Table

PINS	Q'ty/Bag (L ≤ 10.0)	PINS	Q'ty/Bag (L ≤ 10.0)
1	1000	21	300
2	1000	22	300
3	1000	23	300
4	1000	24	300
5	1000	25	300
6	1000	26	300
7	1000	27	300
8	1000	28	300
9	1000	29	300
10	500	30	200
11	500	31	200
12	500	32	200
13	500	33	200
14	500	34	200
15	500	35	200
16	500	36	200
17	500	37	200
18	300	38	200
19	300	39	200
20	300	40	200

PINS	Q'ty/Tube	Q'ty/Inner Box	Q'ty/Box
4	69	8,280	16,560
5	55	6,600	13,200
6	46	5,520	11,040
7	40	4,800	9,600
8	35	4,200	8,400
9	31	3,720	7,440
10	28	3,360	6,720
11	25	3,000	6,000
12	23	2,760	5,520
13	21	2,520	5,040
14	20	2,400	4,800
15	19	2,280	4,560
16	17	2,040	4,080
17	16	1,920	3,840
18	15	1,800	3,600
19	15	1,800	3,600
20	14	1,680	3,360
21	13	1,560	3,120
22	13	1,560	3,120

PINS	Q'ty/Tube	Q'ty/Inner Box	Q'ty/Box
23	12	1,440	2,880
24	11	1,320	2,640
25	11	1,320	2,640
26	11	1,320	2,640
27	10	1,200	2,400
28	10	1,200	2,400
29	9	1,080	2,160
30	9	1,080	2,160
31	9	1,080	2,160
32	9	1,080	2,160
33	8	960	1,920
34	8	960	1,920
35	8	960	1,920
36	8	960	1,920
37	7	840	1,680
38	7	840	1,680
39	7	840	1,680
40	7	840	1,680

A4	2025/08/04	Standardization Drawing	CP	OPERATION	DRAW	DATE	SCALE	Fit	PART NO.
A3	2019/07/20	Modify the CAP	Ding	x.X ±0.40	CP	2025/08/04	UNIT	mm	1220-11XXXXSXXXCXXX
A2	2018/06/25	Add the CAP	Ding	x.XX ±0.25	CHECK	DATE	SIZE	A4	TITLE:
A0	2012/04/26	NEW	William Chen	x.XXX ±0.15	TANG	2025/08/04	SHEET	3/4	PH2.0 SINGLE ROW 180°H=2.0
REV	DATE	MODIFICATION DESCRIPTION	CHANGE	Angle ± 3°	APPROVE	DATE	PROJ.		Customer NO.
				DIM TOL	Steven Zhao	2025/08/04			

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**HSF**

**Packaging Quantity Refers To The Following Table**

B=2.5/3.0/3.5

B=2.5/3.0/3.5

B=4.0

B=4.0

PINS	W	Q'ty/Reel	Q'ty/Inner Box	Q'ty/Box
2	16	550	2,200	6,600
3	24	550	1,650	4,950
4	24	550	1,650	4,950
5	24	550	1,650	4,950
6	24	550	1,650	4,950
7	32	550	1,100	3,300
8	32	550	1,100	3,300
9	44	550	1,100	3,300
10	44	550	1,100	3,300
11	44	550	1,100	3,300
12	44	550	1,100	3,300
13	44	550	1,100	3,300
14	44	550	1,100	3,300
15	56	550	550	1,650
16	56	550	550	1,650
17	56	550	550	1,650
18	56	550	550	1,650

PINS	W	Q'ty/Reel	Q'ty/Inner Box	Q'ty/Box
19	56	550	550	1,650
20	56	550	550	1,650
21	72	550	550	1,650
22	72	550	550	1,650
23	72	550	550	1,650
24	72	550	550	1,650
25	72	550	550	1,650
26	72	550	550	1,650
27	72	550	550	1,650
28	72	550	550	1,650
29	88	550	550	1,650
30	88	550	550	1,650
31	88	550	550	1,650
32	88	550	550	1,650
33	88	550	550	1,650
34	88	550	550	1,650
35	88	550	550	1,650

PINS	W	Q'ty/Reel	Q'ty/Inner Box	Q'ty/Box
2	24	500	1,500	4,500
3	24	500	1,500	4,500
4	24	500	1,500	4,500
5	24	500	1,500	4,500
6	32	500	1,000	3,000
7	32	500	1,000	3,000
8	44	500	1,000	3,000
9	44	500	1,000	3,000
10	44	500	1,000	3,000
11	44	500	1,000	3,000
12	44	500	1,000	3,000
13	44	500	1,000	3,000
14	56	500	500	1,500
15	56	500	500	1,500
16	56	500	500	1,500
17	56	500	500	1,500
18	56	500	500	1,500

PINS	W	Q'ty/Reel	Q'ty/Inner Box	Q'ty/Box
19	56	500	500	1,500
20	72	500	500	1,500
21	72	500	500	1,500
22	72	500	500	1,500
23	72	500	500	1,500
24	72	500	500	1,500
25	72	500	500	1,500
26	72	500	500	1,500
27	72	500	500	1,500
28	88	500	500	1,500
29	88	500	500	1,500
30	88	500	500	1,500
31	88	500	500	1,500
32	88	500	500	1,500
33	88	500	500	1,500
34	88	500	500	1,500
35	88	500	500	1,500

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