

HSF

NOTES:

1. Insulator material: PA9T+33%G.F, UL94 V-0;
2. Terminal material: Copper Alloy;
Terminal Plating: Au/Sn Plated Over Nickel ;
3. Rated Voltage: Signal 50V; Power 600V
4. Rated Current: Power 40A Per Pin; Signal 2.5A;
5. Contact Resistance:
Power 0.7mΩ Max; Signal 20mΩ Max;
6. Insulation Resistance: DC500V
Power 10000MΩ Min;Signal 500MΩ Min;
7. Insulation Withstand Voltage:
Power 2500VAC/1min; Signal 1000VAC/1min ;
8. Durability :200 cycling;
9. Operation Temperature:-20℃ to +105℃;

Ordering Information:

P1FR A - XX XX XX XX XX X X A 1

No. Left Power:
01=1Pin
20=20Pin

No. Right Power:
01=1Pin
20=20Pin

Tail Options(DIP Type):
A=3.43mm
B=2.29mm
C=4.19mm

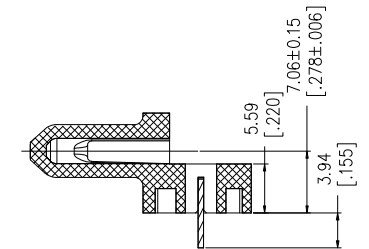
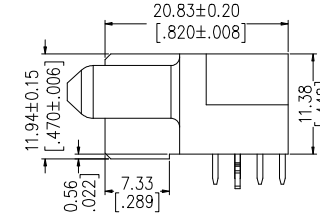
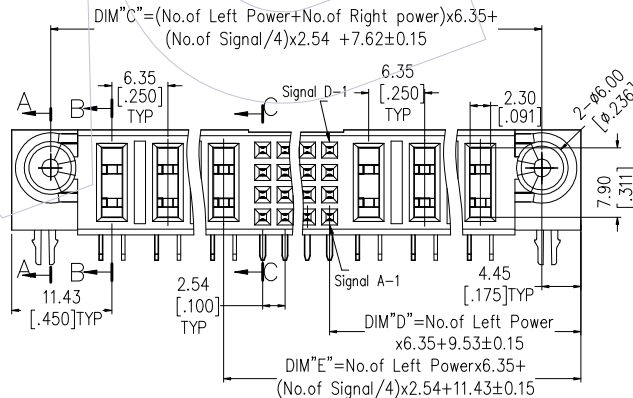
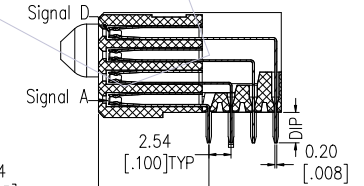
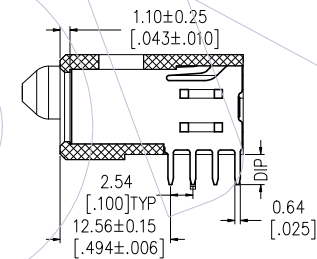
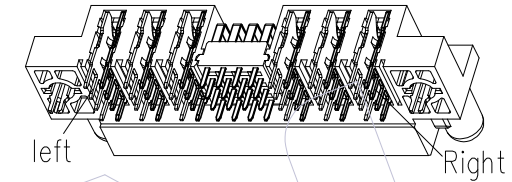
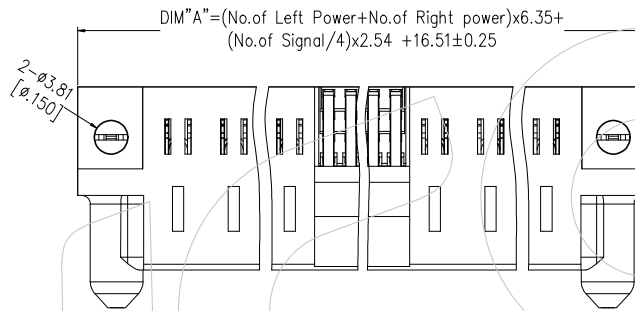
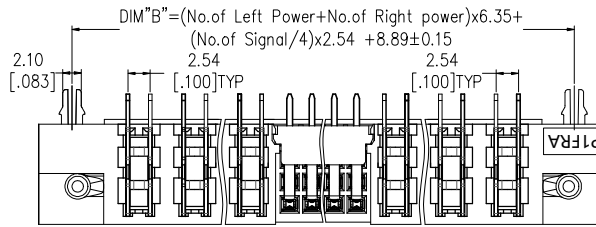
Packing:
A=Tray

No. Signal:
04=4Pin
08=8Pin
A0=100Pin
A1=104Pin
B3=148Pin

Power Contact Plated:
w3=10u" Gold/Matte Tin
w4=15u" Gold/Matte Tin
w5=30u" Gold/Matte Tin

Signal Contact Plated:
w3=10u" Gold/Matte Tin
w4=15u" Gold/Matte Tin
w5=30u" Gold/Matte Tin

Fixed Mode:
M: W/T Lock
N: W/O Lock



A4	2024/09/10	Cancel Xu"Gold/Tin Plated	CP	OPERATION	DRAW	DATE	SCALE	FIT	PART NO.
A3	2019/04/15	Update surface	XSR	X.X	CP	2024/09/10	UNIT	mm	P1FRA-XXXXXXXXXXA1
A2	2018/09/15	Add Product Data Sheet		X.XX	CHECK	DATE	SIZE	inch	TITLE:
A0	2018/07/30	NEW		X.XXX	APPROVE	DATE	SHEET	1/5	PSP Spacing A 90° DIP FEMALE
REV	DATE	MODIFICATION DESCRIPTION	CHANGE	Angle			PROJ.		(TYPE-1:Power+2.54Signal+Power)
				DIM					Customer NO.

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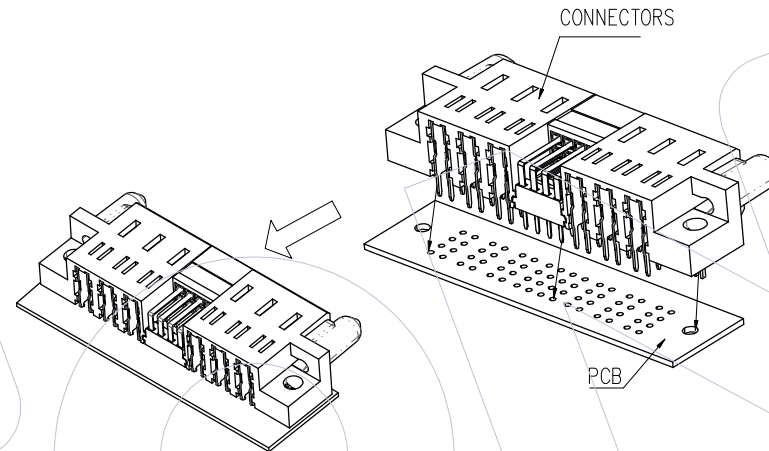
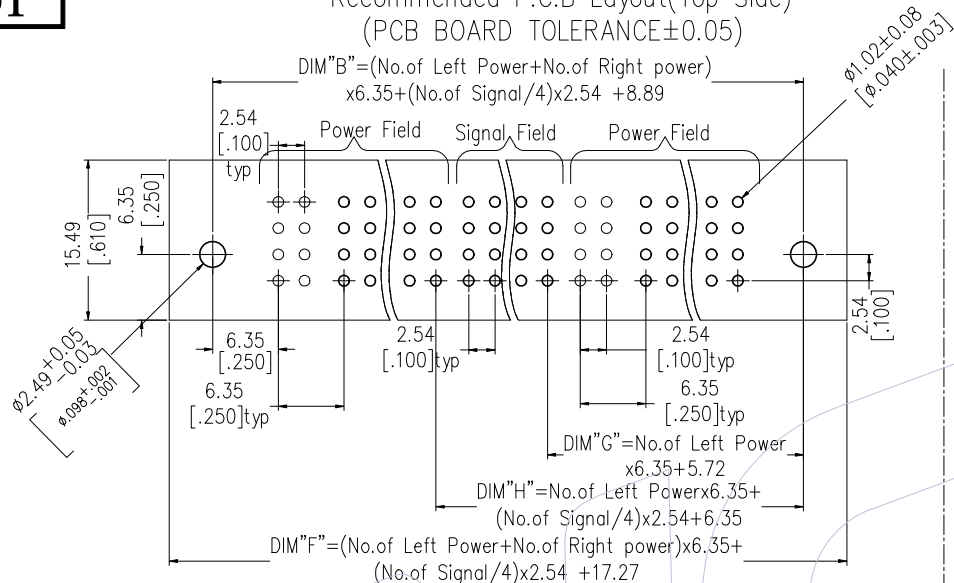
Http: www.wcon.com

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E-mail: salesks@wcon.com

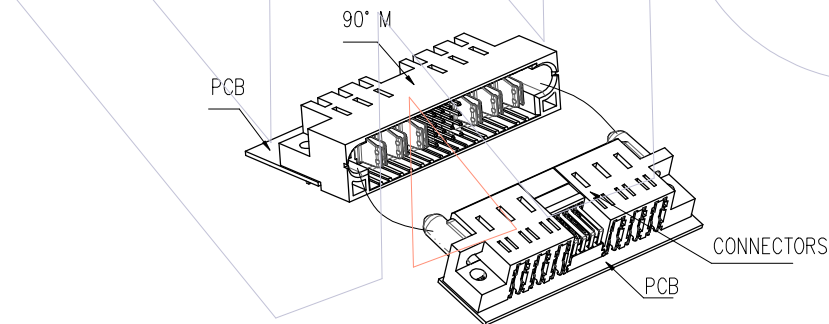
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Recommended P.C.B Layout(Top Side) (PCB BOARD TOLERANCE±0.05)

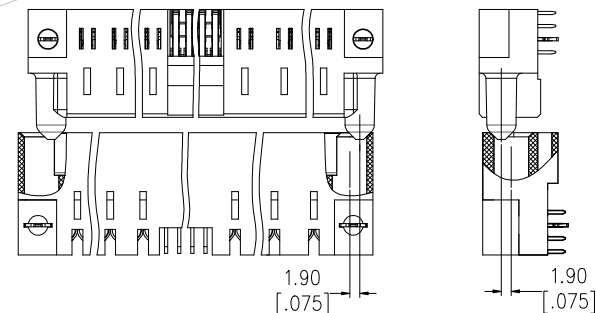


△3 PSP 90°DIP INSTALL CONNECTORS PCB

△3 Attempt to Match with 90° M



△3 Blind Mate Guide Ends
SCALE: 1:2



A4	2024/09/10	Cancel Xu"Gold/Tin Plated	CP	OPERATION	DRAW	DATE	SCALE	FIT	PART NO.	 Http: www.wcon.com WCON-Dongguan Tel: +86 769 85358920 Fax: +86 769 85358915 E-mail: sales@wcon.com WCON-Kunshan Tel: +86 512 57468408 Fax: +86 512 57468468 E-mail: salesks@wcon.com
A3	2019/04/15	Update surface	XSR	x.x ±0.40	CP	2024/09/10	UNIT	mm	P1FRA-XXXXXXXXXXA1 △1	
A2	2018/09/15	Add Product Data Sheet	—	x.xx ±0.25	CHECK	DATE	SIZE	inch	TITLE:	
A0	2018/07/30	NEW	—	x.xxx ±0.15	APPROVE	DATE	SHEET	A4	PSP Spacing A 90° DIP FEMALE △2	
REV	DATE	MODIFICATION DESCRIPTION	CHANGE	Angle ± 3° DIM TOL			PROJ.	2/5	(TYPE-1:Power+2.54Signal+Power) Customer NO.	

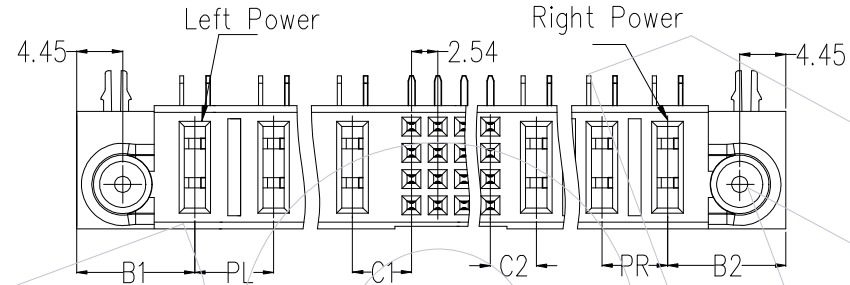
HSF

Ordering Information:

P1 FR A -XX XX XX XX XX X X A 1

-See table "Spec code"

△3 Schematic diagram of terminal spacing



A3	Spec code	Terminal spacing size					
		B1	PL	C1	C2	PR	B2
	A	11.43	6.35	4.45	4.45	6.35	11.43
	B	11.43	6.35	4.45	5.72	6.35	11.43
	C	11.43	6.35	4.45	4.45	7.62	12.07
	D	12.07	7.62	5.08	5.08	7.62	12.07
	E	12.07	7.62	5.08	4.45	6.35	11.43
F	11.43	7.62	5.72	4.45	6.35	11.43	

A4	2024/09/10	Cancel Xu"Gold/Tin Plated	CP	OPERATION		DRAW CP	DATE 2024/09/10	SCALE	FIT	PART NO. P1FRA-XXXXXXXXXXA1 	 Http: www.wcon.com WCON-Dongguan WCON-Kunshan Tel: +86 769 85358920 Tel: +86 512 57468408 Fax: +86 769 85358915 Fax: +86 512 57468468 E-mail: sales@wcon.com E-mail: sales@wcon.com
A3	2019/04/15	Update surface	XSR	X.X	±0.40		CHECK	DATE	UNIT		
A2	2018/09/15	Add Product Data Sheet	—	X.XX	±0.25	SIZE			A4		
A0	2018/07/30	NEW	—	X.XXX	±0.15	SHEET			3/5		
REV	DATE	MODIFICATION DESCRIPTION	CHANGE	Angle	± 3°	APPROVE	DATE	PROJ.		Customer NO.	
				DIM	TOL						



Product Data Sheet

No.	P/N	No. Left Power	No. Signal	No. Right Power	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	No.	P/N	No. Left Power	No. Signal	No. Right Power	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"
1	P1FRA-112003XXXXXXA1	11	20	3	118.11	110.49	109.22	79.38	93.98	118.87	75.57	88.90	31	P1FRA-042406XXXXXXA1	4	24	6	95.25	87.63	86.36	34.93	52.07	96.01	31.12	46.99
2	P1FRA-103206XXXXXXA1	10	32	6	138.43	130.81	129.54	73.03	95.25	139.19	69.22	90.17	32	P1FRA-042404XXXXXXA1	4	24	4	82.55	74.93	73.66	34.93	52.07	83.31	31.12	46.99
3	P1FRA-102410XXXXXXA1	10	24	10	158.75	151.13	149.86	73.03	90.17	159.51	69.22	85.09	33	P1FRA-042403XXXXXXA1	4	24	3	76.20	68.58	67.31	34.93	52.07	76.96	31.12	46.99
4	P1FRA-093207XXXXXXA1	9	32	7	138.43	130.81	129.54	66.68	88.90	139.19	62.87	83.82	34	P1FRA-042402XXXXXXA1	4	24	2	69.85	62.23	60.96	34.93	52.07	70.61	31.12	46.99
5	P1FRA-08A008XXXXXXA1	8	100	8	181.61	173.99	172.72	60.33	125.73	182.37	56.52	120.65	35	P1FRA-042004XXXXXXA1	4	20	4	80.01	72.39	71.12	34.93	49.53	80.77	31.12	44.45
6	P1FRA-083208XXXXXXA1	8	32	8	138.43	130.81	129.54	60.33	82.55	139.19	56.52	77.47	36	P1FRA-041604XXXXXXA1	4	16	4	77.47	69.85	68.58	34.93	46.99	78.23	31.12	41.91
7	P1FRA-082408XXXXXXA1	8	24	8	133.35	125.73	124.46	60.33	77.47	134.11	56.52	72.39	37	P1FRA-041603XXXXXXA1	4	16	3	71.12	63.50	62.23	34.93	46.99	71.88	31.12	41.91
8	P1FRA-082008XXXXXXA1	8	20	8	130.81	123.19	121.92	60.33	74.93	131.57	56.52	69.85	38	P1FRA-041602XXXXXXA1	4	16	2	64.77	57.15	55.88	34.93	46.99	65.53	31.12	41.91
9	P1FRA-073207XXXXXXA1	7	32	7	125.73	118.11	116.84	53.98	76.20	126.49	50.17	71.12	39	P1FRA-041204XXXXXXA1	4	12	4	74.93	67.31	66.04	34.93	44.45	75.69	31.12	39.37
10	P1FRA-073206XXXXXXA1	7	32	6	119.38	111.76	110.49	53.98	76.20	120.14	50.17	71.12	40	P1FRA-040804XXXXXXA1	4	8	4	72.39	64.77	63.50	34.93	41.91	73.15	31.12	36.83
11	P1FRA-072407XXXXXXA1	7	24	7	120.65	113.03	111.76	53.98	71.12	121.41	50.17	66.04	41	P1FRA-03A703XXXXXXA1	3	128	3	135.89	128.27	127.00	28.58	111.76	136.65	24.77	106.68
12	P1FRA-072406XXXXXXA1	7	24	6	114.30	106.68	105.41	53.98	71.12	115.06	50.17	66.04	42	P1FRA-036802XXXXXXA1	3	68	2	91.44	83.82	82.55	28.58	73.66	92.20	24.77	68.58
13	P1FRA-063204XXXXXXA1	6	32	4	100.33	92.71	91.44	47.63	69.85	101.09	43.82	64.77	43	P1FRA-033205XXXXXXA1	3	32	5	87.63	80.01	78.74	28.58	50.80	88.39	24.77	45.72
14	P1FRA-062808XXXXXXA1	6	28	8	123.19	115.57	114.30	47.63	67.31	123.95	43.82	62.23	44	P1FRA-033203XXXXXXA1	3	32	3	74.93	67.31	66.04	28.58	50.80	75.69	24.77	45.72
15	P1FRA-062804XXXXXXA1	6	28	4	97.79	90.17	88.90	47.63	67.31	98.55	43.82	62.23	45	P1FRA-032803XXXXXXA1	3	28	3	72.39	64.77	63.50	28.58	48.26	73.15	24.77	43.18
16	P1FRA-062406XXXXXXA1	6	24	6	107.95	100.33	99.06	47.63	64.77	108.71	43.82	59.69	46	P1FRA-032408XXXXXXA1	3	24	8	101.60	93.98	92.71	28.58	45.72	102.36	24.77	40.64
17	P1FRA-062404XXXXXXA1	6	24	4	95.25	87.63	86.36	47.63	64.77	96.01	43.82	59.69	47	P1FRA-032403XXXXXXA1	3	24	3	69.85	62.23	60.96	28.58	45.72	70.61	24.77	40.64
18	P1FRA-061602XXXXXXA1	6	16	2	77.47	69.85	68.58	47.63	59.69	78.23	43.82	54.61	48	P1FRA-032003XXXXXXA1	3	20	3	67.31	59.69	58.42	28.58	43.18	68.07	24.77	38.10
19	P1FRA-053205XXXXXXA1	5	32	5	100.33	92.71	91.44	41.28	63.50	101.09	37.47	58.42	49	P1FRA-031604XXXXXXA1	3	16	4	71.12	63.50	62.23	28.58	40.64	71.88	24.77	35.56
20	P1FRA-052405XXXXXXA1	5	24	5	95.25	87.63	86.36	41.28	58.42	96.01	37.47	53.34	50	P1FRA-031603XXXXXXA1	3	16	3	64.77	57.15	55.88	28.58	40.64	65.53	24.77	35.56
21	P1FRA-052403XXXXXXA1	5	24	3	82.55	74.93	73.66	41.28	58.42	83.31	37.47	53.34	51	P1FRA-031203XXXXXXA1	3	12	3	62.23	54.61	53.34	28.58	38.10	62.99	24.77	33.02
22	P1FRA-052005XXXXXXA1	5	20	5	92.71	85.09	83.82	41.28	55.88	93.47	37.47	50.80	52	P1FRA-031202XXXXXXA1	3	12	2	55.88	48.26	46.99	28.58	38.10	56.64	24.77	33.02
23	P1FRA-04A504XXXXXXA1	4	120	4	143.51	135.89	134.62	34.93	113.03	144.27	31.12	107.95	53	P1FRA-030803XXXXXXA1	3	8	3	59.69	52.07	50.80	28.58	35.56	60.45	24.77	30.48
24	P1FRA-045604XXXXXXA1	4	56	4	102.87	95.25	93.98	34.93	72.39	103.63	31.12	67.31	54	P1FRA-030403XXXXXXA1	3	4	3	57.15	49.53	48.26	28.58	33.02	57.91	24.77	27.94
25	P1FRA-044804XXXXXXA1	4	48	4	97.79	90.17	88.90	34.93	67.31	98.55	31.12	62.23	55	P1FRA-02A002XXXXXXA1	2	100	2	105.41	97.79	96.52	22.23	87.63	106.17	18.42	82.55
26	P1FRA-044804XXXXXXA1	4	48	4	97.79	90.17	88.90	34.93	67.31	98.55	31.12	62.23	56	P1FRA-029602XXXXXXA1	2	96	2	102.87	95.25	93.98	22.23	85.09	103.63	18.42	80.01
27	P1FRA-044004XXXXXXA1	4	40	4	92.71	85.09	83.82	34.93	62.23	93.47	31.12	57.15	57	P1FRA-028002XXXXXXA1	2	80	2	92.71	85.09	83.82	22.23	74.93	93.47	18.42	69.85
28	P1FRA-043204XXXXXXA1	4	32	4	87.63	80.01	78.74	34.93	57.15	88.39	31.12	52.07	58	P1FRA-027202XXXXXXA1	2	72	2	87.63	80.01	78.74	22.23	69.85	88.39	18.42	64.77
29	P1FRA-042804XXXXXXA1	4	28	4	85.09	77.47	76.20	34.93	54.61	85.85	31.12	49.53	59	P1FRA-026002XXXXXXA1	2	60	2	80.01	72.39	71.12	22.23	62.23	80.77	18.42	57.15
30	P1FRA-042408XXXXXXA1	4	24	8	107.95	100.33	99.06	34.93	52.07	108.71	31.12	46.99	60	P1FRA-024002XXXXXXA1	2	40	2	67.31	59.69	58.42	22.23	49.53	68.07	18.42	44.45

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A3	2019/04/15	Update surface	XSR	x.x ±0.40	CP	2024/09/10	UNIT	mm	P1FRA-XXXXXXXXXXA1				
A2	2018/09/15	Add Product Data Sheet	—	x.xx ±0.25	CHECK	DATE	SIZE	A4	TITLE:				
A0	2018/07/30	NEW	—	x.xxx ±0.15	APPROVE	DATE	SHEET	4/5	PSP Spacing A 90° DIP FEMALE (TYPE-1:Power+2.54Signal+Power)				
REV	DATE	MODIFICATION DESCRIPTION	CHANGE	Angle DIM TOL			PROJ.	4/5	Customer NO.				

No.	P/N	No. Left Power	No. Signal	No. Right Power	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"
61	P1FRA-023606XXXXXA1	2	36	6	90.17	82.55	81.28	22.23	46.99	90.93	18.42	41.91
62	P1FRA-023206XXXXXA1	2	32	6	87.63	80.01	78.74	22.23	44.45	88.39	18.42	39.37
63	P1FRA-023202XXXXXA1	2	32	2	62.23	54.61	53.34	22.23	44.45	62.99	18.42	39.37
64	P1FRA-022814XXXXXA1	2	28	14	135.89	128.27	127.00	22.23	41.91	136.65	18.42	36.83
65	P1FRA-022802XXXXXA1	2	28	2	59.69	52.07	50.80	22.23	41.91	60.45	18.42	36.83
66	P1FRA-022404XXXXXA1	2	24	4	69.85	62.23	60.96	22.23	39.37	70.61	18.42	34.29
67	P1FRA-022402XXXXXA1	2	24	2	57.15	49.53	48.26	22.23	39.37	57.91	18.42	34.29
68	P1FRA-022002XXXXXA1	2	20	2	54.61	46.99	45.72	22.23	36.83	55.37	18.42	31.75
69	P1FRA-021604XXXXXA1	2	16	4	64.77	57.15	55.88	22.23	34.29	65.53	18.42	29.21
70	P1FRA-021602XXXXXA1	2	16	2	52.07	44.45	43.18	22.23	34.29	52.83	18.42	29.21
71	P1FRA-021202XXXXXA1	2	12	2	49.53	41.91	40.64	22.23	31.75	50.29	18.42	26.67
72	P1FRA-020802XXXXXA1	2	8	2	46.99	39.37	38.10	22.23	29.21	47.75	18.42	24.13
73	P1FRA-020801XXXXXA1	2	8	1	40.64	33.02	31.75	22.23	29.21	41.40	18.42	24.13
74	P1FRA-020402XXXXXA1	2	4	2	44.45	36.83	35.56	22.23	26.67	45.21	18.42	21.59
75	P1FRA-01B301XXXXXA1	1	148	1	123.19	115.57	114.30	15.88	111.76	123.95	12.07	106.68
76	P1FRA-017201XXXXXA1	1	72	1	74.93	67.31	66.04	15.88	63.50	75.69	12.07	58.42
77	P1FRA-016402XXXXXA1	1	64	2	76.20	68.58	67.31	15.88	58.42	76.96	12.07	53.34
78	P1FRA-016001XXXXXA1	1	60	1	67.31	59.69	58.42	15.88	55.88	68.07	12.07	50.80
79	P1FRA-014801XXXXXA1	1	48	1	59.69	52.07	50.80	15.88	48.26	60.45	12.07	43.18
80	P1FRA-014401XXXXXA1	1	44	1	57.15	49.53	48.26	15.88	45.72	57.91	12.07	40.64
81	P1FRA-014002XXXXXA1	1	40	2	60.96	53.34	52.07	15.88	43.18	61.72	12.07	38.10
82	P1FRA-014001XXXXXA1	1	40	1	54.61	46.99	45.72	15.88	43.18	55.37	12.07	38.10
83	P1FRA-013201XXXXXA1	1	32	1	49.53	41.91	40.64	15.88	38.10	50.29	12.07	33.02
84	P1FRA-012401XXXXXA1	1	24	1	44.45	36.83	35.56	15.88	33.02	45.21	12.07	27.94
85	P1FRA-011601XXXXXA1	1	16	1	39.37	31.75	30.48	15.88	27.94	40.13	12.07	22.86
86	P1FRA-011201XXXXXA1	1	12	1	36.83	29.21	27.94	15.88	25.40	37.59	12.07	20.32
87	P1FRA-010801XXXXXA1	1	8	1	34.29	26.67	25.40	15.88	22.86	35.05	12.07	17.78
88	P1FRA-010401XXXXXA1	1	4	1	31.75	24.13	22.86	15.88	20.32	32.51	12.07	15.24

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A2	2018/09/15	Add Product Data Sheet	—	X.XX ±0.25	CHECK	DATE	SIZE	inch	TITLE:	
A0	2018/07/30	NEW	—	X.XXX ±0.15	APPROVE	DATE	SHEET	A4	PSP Spacing A 90° DIP FEMALE 	
REV	DATE	MODIFICATION DESCRIPTION	CHANGE	Angle DIM TOL			PROJ.	5/5	(TYPE-1:Power+2.54Signal+Power)	
									Customer NO.	WCON-Dongguan Tel: +86 769 85358920 Fax: +86 769 85358915 E-mail: sales@wcon.com WCON-Kunshan Tel: +86 512 57468408 Fax: +86 512 57468468 E-mail: salesks@wcon.com