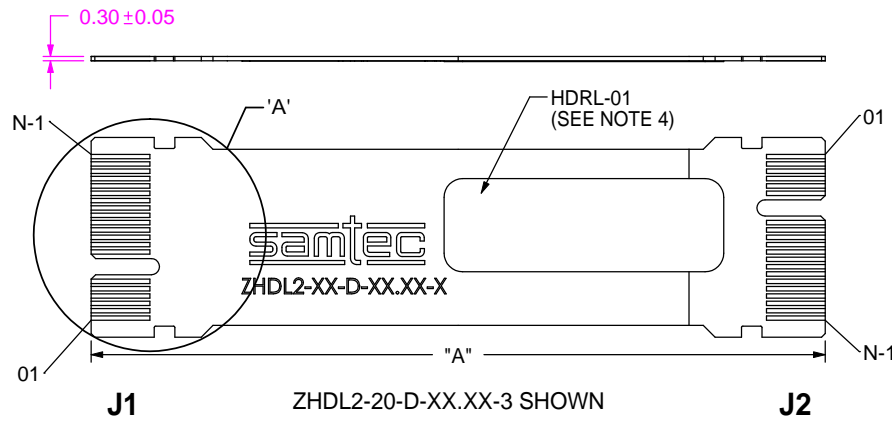


DO NOT SCALE FROM THIS PRINT



ZHDL2-XX-D-X-XX.XX-X

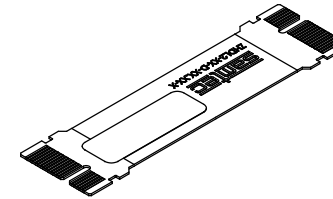
No OF POSITIONS (PER ROW)
 -20: 20 POS
 -30: 30 POS
 -40: 40 POS
 -50: 50 POS

WIRING OPTION
 * -2: PIN 1 TO PIN 2
 -3: PIN 1 TO PIN N-1
 (SEE SHEET 2)

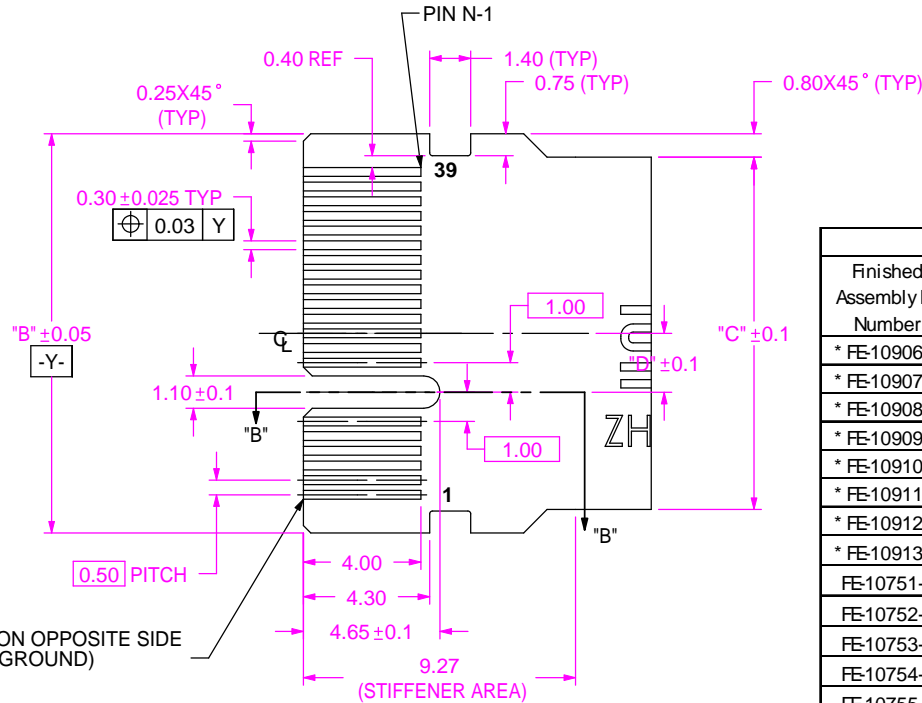
PLATING
 **-T: TIN PLATING
 -H: HARD GOLD

OVERALL LENGTH
 -05.00 : 5 INCH
 -10.00 : 10 INCH

* NOT TOOLED
 ** NOT RELEASED



PADS	
T	.00254[.000100] - .00635[.000250] TIN OVER .00127[.000050] - .00381[.000150] NICKEL
H	.00076[.000030] MIN GOLD OVER .00254[.000100] NICKEL



PIN 1 (PIN 2-N ON OPPOSITE SIDE ALL ARE GROUND)

DETAIL 'A'
SCALE 4 : 1

Finished Assembly FE Number	TOP Bare Flex FE Number	BOTTOM Bare Flex FE Number	P/N	Positions	"A"	"B"	"C"	"D"
* FE10906-X	* FE10914-X	* FE10915	* ZHDL2-20-D-X-05.00-2	2x20	127.00	13.60	12.00	2.00
* FE10907-X	* FE10916-X	* FE10917	* ZHDL2-20-D-X-10.00-2	2x20	254.00	13.60	12.00	2.00
* FE10908-X	* FE10918-X	* FE10919	* ZHDL2-30-D-X-05.00-2	2x30	127.00	18.60	17.00	1.50
* FE10909-X	* FE10920-X	* FE10921	* ZHDL2-30-D-X-10.00-2	2x30	254.00	18.60	17.00	1.50
* FE10910-X	* FE10922-X	* FE10923	* ZHDL2-40-D-X-05.00-2	2x40	127.00	23.60	22.00	2.00
* FE10911-X	* FE10924-X	* FE10925	* ZHDL2-40-D-X-10.00-2	2x40	254.00	23.60	22.00	2.00
* FE10912-X	* FE10926-X	* FE10927	* ZHDL2-50-D-X-05.00-2	2x50	127.00	28.60	27.00	1.50
* FE10913-X	* FE10928-X	* FE10929	* ZHDL2-50-D-X-10.00-2	2x50	254.00	28.60	27.00	1.50
FE10751-X	FE10817-X	FE10818	ZHDL2-20-D-X-05.00-3	2x20	127.00	13.60	12.00	2.00
FE10752-X	FE10832-X	FE10833	ZHDL2-20-D-X-10.00-3	2x20	254.00	13.60	12.00	2.00
FE10753-X	FE10834-X	FE10835	ZHDL2-30-D-X-05.00-3	2x30	127.00	18.60	17.00	1.50
FE10754-X	FE10836-X	FE10837	ZHDL2-30-D-X-10.00-3	2x30	254.00	18.60	17.00	1.50
FE10755-X	FE10838-X	FE10839	ZHDL2-40-D-X-05.00-3	2x40	127.00	23.60	22.00	2.00
FE10756-X	FE10840-X	FE10841	ZHDL2-40-D-X-10.00-3	2x40	254.00	23.60	22.00	2.00
FE10757-X	FE10842-X	FE10843	ZHDL2-50-D-X-05.00-3	2x50	127.00	28.60	27.00	1.50
FE10758-X	FE10844-X	FE10845	ZHDL2-50-D-X-10.00-3	2x50	254.00	28.60	27.00	1.50

NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. ALL DIMENSIONS TO BE SYMMETRICAL ABOUT CENTERLINE WITHIN +/-0.05 [0.002] UNLESS OTHERWISE STATED.
3. PARTS TO BE LAYER PACKAGED
4. LABEL TO CONTAIN PART NUMBER, DATE CODE, AND SHOP NUMBER.
5. IMPEDANCE TO BE: -SE 50 OHMS ±10%, -DP 90 OHMS ±10%
VENDOR MAY ADJUST TRACE WIDTHS FROM PROVIDED GERBER TO MEET IMPEDANCE. VENDOR TO PROVIDE IMPEDANCE VERIFICATION REPORT.
6. SEE TABLE 2 FOR SURFACE FINISH OF PADS.
7. ALL PARTS TO BE 100% TESTED FOR ISOLATION AND CONTINUITY PER STANDARD NA-FL-WI-2003-M.
8. ALL PARTS TO BE 100% TESTED FOR HI-POT AT 300V DC PER STANDARD NA-FL-WI-2003-M.
9. FABRICATION OF THIS PARTS SHALL BE IN CONFORMANCE WITH IPC 6013 CLASS 2.
10. CROSS SECTION DATA TO BE SUPPLIED BY VENDOR FOR PLATING AND TRACE REQUIREMENTS.
11. SIGNAL MAPPING: ALL ODD NUMBER PINS ARE SIGNAL, ALL EVEN NUMBER PINS ARE GROUND.
12. TRACE/SPACE: MINIMUM TRACE TO BE .0108 ±.001
MINIMUM SPACE TO BE .009 ±.001.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:
 DECIMALS
 X.X: ±0.3
 X.XX: ±0.05
 X.XXX: ±0.025

ANGLES
 2°

PROPRIETARY NOTE

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1

SEE CROSS SECTION DETAIL

DESCRIPTION: FPC for ZHR5
 DWG. NO. ZHDL2-XX-D-X-XX.XX-X
 BY: CLAY W 04/01/2009 SHEET 1 OF 2

ZHDL2 - DP Pinout

-20 Shown. -40 and -60 repeat same pattern.

J1 Pin	Signal	J2 Pin	DP Pair
1	S	2	Pair
3	S	4	
2	G	1	
4	G	3	
5	S	6	Pair
7	S	8	
6	G	5	
8	G	7	
9	S	10	Pair
11	S	12	
10	G	9	
12	G	11	
...	Pair
...	
...	
...	
37	S	38	Pair
39	S	40	
38	G	37	
40	G	39	

ZHDL2 - SEP Pinout

-20 Shown. -40 and -60 repeat same pattern.

J1 Pin	Signal	J2 Pin
1	S	2
2	G	1
3	S	4
4	G	3
5	S	6
6	G	5
7	S	8
8	G	7
9	S	10
10	G	9
11	S	12
12	G	11
...
...
...
...
37	S	38
38	G	37
39	S	40
40	G	39

ZHDL2 - DP Pinout

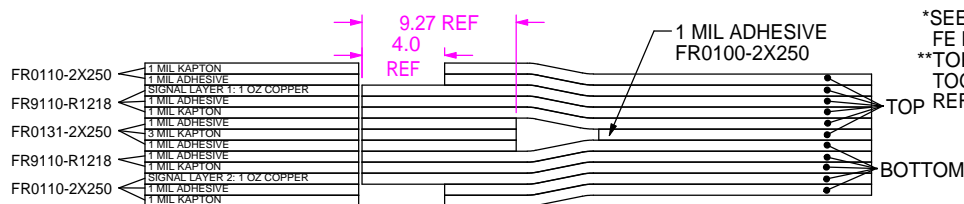
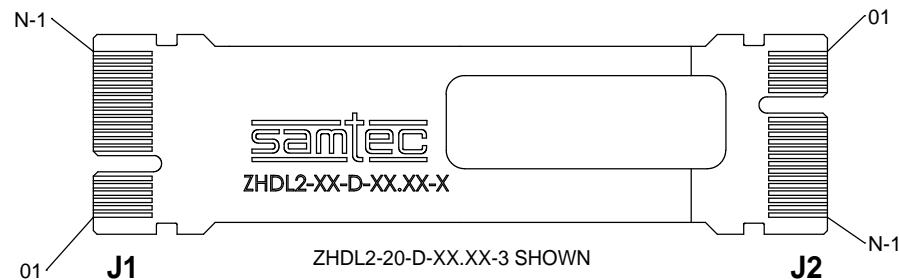
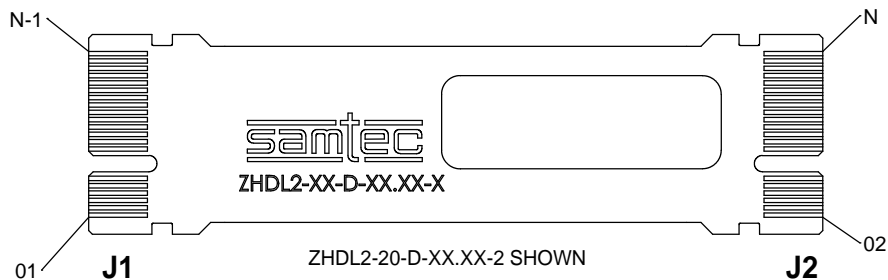
-20 Shown. -40 and -60 repeat same pattern.

J1 Pin	Signal	J2 Pin	DP Pair
1	S	39	Pair
3	S	37	
2	G	40	
4	G	38	
5	S	35	Pair
7	S	33	
6	G	36	
8	G	34	
9	S	31	Pair
11	S	29	
10	G	32	
12	G	30	
...	Pair
...	
...	
...	
37	S	3	Pair
39	S	1	
38	G	4	
40	G	2	

ZHDL2 - SEP Pinout

-20 Shown. -40 and -60 repeat same pattern.

J1 Pin	Signal	J2 Pin
1	S	39
2	G	40
3	S	37
4	G	38
5	S	35
6	G	36
7	S	33
8	G	34
9	S	31
10	G	32
11	S	29
12	G	30
...
...
...
...
37	S	3
38	G	4
39	S	1
40	G	2



SECTION "B" - "B"

*SEE TABLE 1 FOR TOP/BOTTOM FE PART NUMBERS
 **TOP/BOTTOM ARE LAMINATED TOGETHER WITH ADHESIVE-REFER TO SECTION B-B

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DO NOT SCALE DRAWING

SHEET SCALE: 2:1



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DESCRIPTION:

FPC for ZHR5

DWG. NO.

ZHDL2-XX-D-X-XX.XX-X

BY: CLAY W

04/01/2009

SHEET 2 OF 2