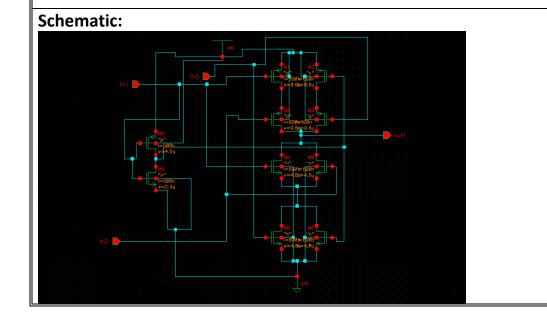
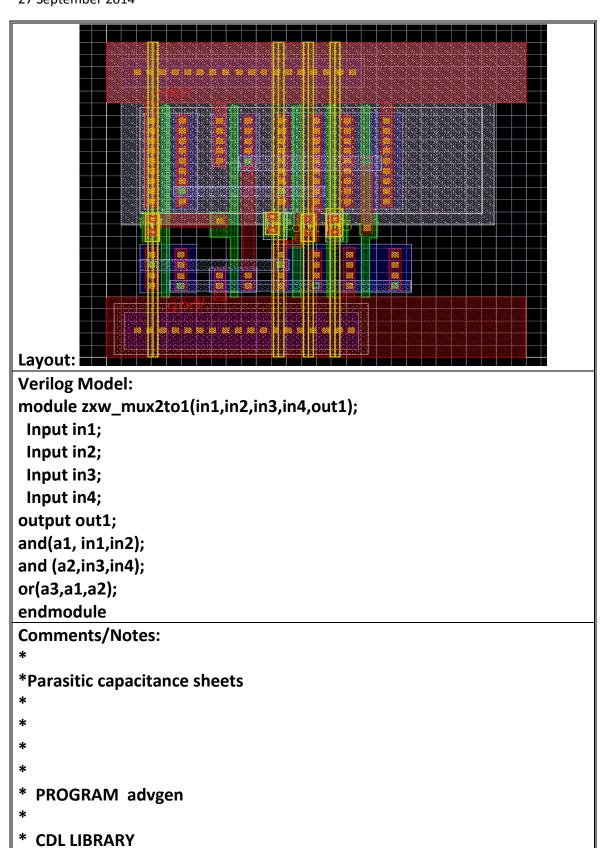
Name:		

Library Name:	Zxw_lib
Cell Name:	Zxw_2to1mux
Function/Truth Table:	
S A1 A0	Υ
0 0 0	0
0 0 1	0
0 1 0	1
0 1 1	1
1 0 0	0
1 0 1	1
1 1 0	0
1 1 1	1
Layout Area: 1046 um^2	

Symbol with Port Names: in1 out1 in2 [@partName] in3





```
.SUBCKT zxw mux2to1 vdd! gnd! in1 in2 in3 out1
* caps2d version: 7
   TRANSISTOR CARDS
M4 out1#1 in1#6 net16#2 gnd!#2 nmos L=0.6 W=4.8
+ AD=8.4 AS=10.56 PD=8.3 PS=9.2
M9 net4#4 in1#10 gnd!#5 gnd!#2 nmos L=0.6
    W=2.4
+ AD=3.72 AS=3.96 PD=5.5 PS=5.7
M6 out1#6 in2#6 net16#3 gnd!#2 nmos L=0.6 W=4.8
                 PD=8.2 PS=2.15
+ AD=8.16 AS=5.16
M5 net16#3 in3#4 gnd!#1 gnd!#2 nmos L=0.6 W=4.8
+ AD=5.16 AS=5.28 PD=2.15 PS=2.2
M7 net16#6 net4#8 gnd!#1 gnd!#2 nmos L=0.6
    W=4.8
+ AD=16.08 AS=5.28 PD=11.5 PS=2.2
M1 net089#2 in1#3 vdd!#5 vdd!#2
                                   pmos L=0.6 W=9.6
+ AD=21.6 AS=13.44 PD=14.1 PS=12.4
M8 net4 in1#8 vdd!#6 vdd!#2
                               pmos L=0.6 W=4.8
+ AD=8.94 AS=7.695 PD=9.2
                         PS=8.7
M0 out1#4 in2#4 net089#4 vdd!#2
                                  pmos L=0.6 W=9.6
+ AD=10.32 AS=14.88 PD=2.15 PS=12.7
M3 out1#4 in3#3 net43 vdd!#2 pmos L=0.6 W=9.6
+ AD=10.32 AS=10.56 PD=2.15 PS=2.2
M2 net43 net4#7 vdd!#1 vdd!#2 pmos L=0.6 W=9.6
+ AD=10.56 AS=25.44 PD=2.2
                         PS=14.9
```

Name:

```
*
    RESISTOR AND CAP/DIODE CARDS
Re1 in1#3 in1#4 320.0016
Re2 in1#4 in1#1 27.6271
Re3 in1#4 in1#6 197.5015
Re4 in1#8 in1#9 426.9459
Re5 in1#9 in1#7 9.6000
Re6 in1#9 in1#10
                    266.9459
Re7 in2#4 in2#5 308.4531
Re8 in2#5 in2#2 20.4255
Re9 in2#5 in2#6 213.4531
Re10 in3#3 in3#2 294.6140
Re11 in3#2 in3#4 172.7959
Re12 net4#7 net4#6
                         301.6059
Rc2 net4#6 net4#8
                         175.7406
             out1#2
                        21.0496
Rc2 net16 net16#2 21.1387
Rc3 net089
              net089#2
                         12.3944
Rc4 in1#7 in1#1 40.3692
Rc6 net4#2
              net4#3
                        0.1936
Rc7 net4#3
             net4#4
                         41.1144
Rc8 net4 net4#2
                    20.0000
Rc9 in2#1 in2#2 20.5000
Rc10 net089#3 net089#5
                          1.1700
Rc11 net089#5 net089#6
                        8.500E-02
Rc12 net089#6 net089#7
                        0.2550
Rc13 net089#7
              net089#4
                         100.0850
Rc14 net089#4
              net089#5
                        14.2857
Rc15 net089#4
              net089#6
                         11.1111
Rc16 net089#4
              net089#7
                         100.0000
Rc17 out1#4
              out1#5
                         11.7171
Rc18 out1#5
              out1#3
                         0.4378
Rc19 out1#3
              out1#6
                         20.0470
Rc20 net16#3
              net16#4
                         27.8579
```

Name:			

Rc21 in3#1 in3#2 20.5000 Rc22 net4#5 net4#6 41.6281
Rc23 net16#5 net16#6 21.1364
Rc24 gnd!#1 gnd!#3 20.4314
Rc25 gnd!#3 gnd!#4 2.868E-02
Rc26 gnd!#4 gnd! 3.731E-02
Rc27 gnd!#4 gnd!#5 40.2197
Rc28 gnd!#2 gnd!#3 5.5556
Rc29 vdd!#1 vdd!#3 11.8688
Rc30 vdd!#3 vdd!#4 2.915E-02
Rc31 vdd!#4 vdd! 5.343E-02
Rc32 vdd! vdd!#5 11.7265
Rc33 vdd!#4 vdd!#6 20.4183
Rc34 vdd!#2 vdd!#3 4.4444
Rb1 in1#1 in1 1.0000
Rb2 in2#1 in2#3 0.5000
Rb3 out1#3 out1#2 1.8379
Rb4 out1#5 out1 1.0000
Rb5 net089#3 net089 0.7158
Rb6 in3#1 in3 0.5000
Rb7 net4#5 net4#3 1.5569
Rb8 net16#5 net16#4 0.5140
Rb9 net16#4 net16 0.8743
Ra2 in2#3 in2 9.100E-03
*
* CAPACITOR CARDS
*
*
C1 in1 vdd! 4.217E-16
C2 vdd!#5 in1#4 5.879E-17
C3 in2#5 gnd!#2 3.680E-16
C4 out1#2 net089#2 2.916E-17
C5 in3#4 gnd!#2 3.893E-16
C6 vdd! in1#3 6.617E-17
C7 in3#1 net4#5 1.143E-17
C8 out1#2 in1#6 1.131E-17

Name:			

	vdd! gnd!		
C10			2.395E-17
			6.695E-17
	•		1.999E-16
	vdd!#6		
C14	in2#6 gnd!	#2 5.38	31E-16
	in2#3 net4		
C16	net089#2	vdd! 7.40)4E-17
II			8.886E-17
C18	net4#3	in2#2 1.32	21E-17
C19	out1#1	in1#4 1.99	94E-17
C20	net16#4	out1#6	1.037E-16
C21	out1#6	gnd!#2	8.946E-17
C22	net089#3	out1#4	1.944E-16
C23	net4#3	vdd!#2	7.155E-17
C24	net16#4	in3#1 2.58	37E-17
	gnd!#1		
	in1#7 net4		
C27	in1#10	gnd!#2	4.548E-16
C28		#2 1.22	
C29	net089#3	net4#5	4.107E-17
C30	out1#5		
C31			4.313E-17
	in1 gnd!		
C33	•		
	in3#3 net4		
C35		in1#3 1.76	
C36			33E-16
C37	J		
C38	J		7.475E-18
C39			
C40			1.679E-17
	out1#3		55E-17
_	in1 vdd!		_
C42		gnd!#2	
	vdd!#5	•	
C44	vuu:#3	1111#3 2.20	JOE-10

Name:			
i varric.			

I			
C45	out1 in3#	1 3.374E-	17
C46	in1 gnd!	# 5 2	.025E-17
C47	in1 net0	89#2 1	.028E-16
C48	out1#6	net089	# 3 1.378 E-1
C49	out1 net1	6#4 1	.128E-16
C50	in1 vdd!	#5 2	.910E-16
C51	in1 out1	#1 1	.265E-16
C52	net16#3	in2#6 4	.369E-17
C53	net4#6	gnd!#2	4.569E-1
	out1 net0	•	
			5.396E-1
	out1 in2#:	•	
	out1 net4		
			1.522E-1
C59			1.438E-1
			1.529E-1
	out1#6		
	in3#2 gnd!		
	_		1.973E-1
			5.609E-1
	in2#1 net0	_	
C66	in2#1 neto		
C67			13 2 4.399E-1
C68	out1 gnd!		
C69	•		1.268E-1
C70			
C71			
C72	in2#2 gild:		.981E-16
	vdd!#4		
C74			.056E-16
C74			
C75	U		
C76	U		
	out1#3		1.336E-1
C79	in2#1 net0		
C80	net4#4	in1#10	9.205E-1

C81	in1#7 gnd!#	2	2.911	E-16	
C82	in2#3 gnd!#	2	4.213	E-16	
C83	net089#3	net4#	3	6.289E-16	
C84	gnd!#1	in3#2	4.023	E-17	
C85	out1#3	in2#1	6.549	E-17	
C86	net4#4	in2#1	1.255	E-16	
C87	gnd!#5	in1#1	0	7.339E-17	
C88	out1#3	gnd!#	5	4.044E-17	
	out1#5				
C90	net16#5	gnd!#	2	1.020E-17	
C91	net089#3	in2#4	2.251	E-16	
C92	net4#3	in2#1	4.531	E-17	
C93	in2#3 vdd!#	2	3.660	E-16	
C94	net16#5	net4#	8	4.344E-17	
C95	net16#5	vdd!#	1	1.228E-17	
C96	in2#3 in1#9	4.546	E-17		
C97	vdd!#6	net4#	3	1.821E-16	
C98	out1#6	net16	#3	4.907E-17	
C99	vdd!#1	gnd!#	2	1.432E-16	
C100	in3#2 net4#	6	9.610	E-17	
C101	in1#4 gnd!#	2	3.174	E-16	
C102	net4#5	vdd!#	1	4.326E-16	
C103	in2#3 net16	#4	1.254	E-16	
C104	net16#3	in2#5	6.826	E-18	
C105	net4#3	in1#8	1.855	E-16	
C106	out1#6	in2#2	3.113	E-17	
C107	out1#1	in1#6	9.727	E-17	
C108	vdd!#1	net4#	7	2.043E-16	
C109	in3#1 gnd!#	2	1.208	E-17	
C110	vdd!#5	net08	9#2	1.944E-16	
C111	net16#4	in3#4	3.917	E-17	
C112	net089#2	net4#	3	2.621E-17	
C113	net4#3	in1#3	4.214	E-17	
C114	in2#3 out1#	5	3.891	E-17	
C115	net089#3	in1#9	3.338	E-17	
	net16#4		0 4 = 6		

C117	net4#4	in2#2 3	3.252E-17
C118	net4#4	in1#9 1	L.484E-16
	vdd!#1		
C120	net16#4	gnd!#2	1.919E-16
			3.397E-16
C122	net16#5	net4#6	5.068E-18
C123	in2#3 net08	39#3 2	2.601E-16
C124	in1#9 gnd!#	‡ 2	4.508E-16
C125	in2#3 out1#	#4 2	2.963E-17
C126	out1#5	gnd!#2	1.164E-16
	out1#5		
H	out1#3		
C129	in1#7 net4#	‡4 4	1.642E-17
C130	vdd!#2	in2#4 6	5.617E-17
C131	out1#4	in3#3 1	L.854E-16
			3.790E-17
			5.363E-17
	_		L.311E-16
C135	net089#2	in1#4 4	1.984E-17
C136	net4#5	out1#4	1.487E-16
II	out1#6		
			3.056E-17
	in2#3 net16		
	in3#1 gnd!#		
	vdd!#2		
C142	out1#4	in2#4 1	L.119E-16
C143	net089#3	in2#5 9	9.828E-17
	in2#1 in1#9		
	in1#7 net08		
			9.594E-17
	in2#3 net08		
_		_	7.813E-17
	out1#5	_	
			3.330E-16
	in2#3 net4#	•	
			6.532E-17
<u> </u>			

Name:			
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ll .	net089#3 in3#2 4.383E-18
	net4#8 gnd!#2 3.588E-16
C155	out1#2 gnd!#5 1.695E-17
C156	in2#3 out1#6 5.448E-17
C157	in2#1 gnd!#2 2.984E-17
C158	net4#3 in1#9 1.488E-16
	net089#3 in2#2 2.400E-17
C160	net16 net4#4 5.863E-17
C161	in3 gnd!#1 4.155E-16
C162	gnd!#1 net43 2.910E-17
C163	net089 net16#2 2.231E-17
C164	in3 out1#4 4.082E-17
C165	net16 in1#1 3.357E-17
	out1#4 net43 1.367E-16
	in1#1 net089#2 6.641E-17
	net16 in1#10 9.338E-18
	in3 net16#3 2.292E-17
C170	net089 in1#1 2.246E-17
	net089 vdd!#5 2.013E-17
	in1#1 vdd!#5 1.199E-16
	net16 gnd!#5 1.794E-16
	out1#2 net16 3.226E-16
	out1#2 in1#1 3.631E-17
	in3 net4#5 1.436E-16
	net16 in1#6 1.054E-16
	net089 in1#7 1.162E-16
	in1 net16 9.724E-17
	net4#5 net43 4.797E-16
	in3 net16#4 1.368E-16
	net43 net4#7 1.364E-16
	net089 in1#4 8.058E-18
	net43 vdd!#1 1.490E-16
	in3 out1#5 4.062E-17
	in1 net089 6.258E-17
	in3#1 net43 3.594E-17
C188	out1 in3 1.500E-15

C189 net43 in3#3 1.594E-16 C190 net16 out1#3		
C191 in3 gnd!#2 5.175E-17 C192 in3 net089#3 4.289E-17 C193 net089 vdd!#6 3.625E-17 C194 net16 gnd!#4 6.832E-17		
C192 in3 net089#3 4.289E-17 C193 net089 vdd!#6 3.625E-17 C194 net16 gnd!#4 6.832E-17		
C193 net089 vdd!#6 3.625E-17 C194 net16 gnd!#4 6.832E-17		
C194 net16 gnd!#4 6.832E-17		
C10F		
C195 out1#1 net16 1.117E-16		
C196 in3 vdd!#1 3.407E-16		
C197 net4#6 net43 1.464E-16		
C198 in3 net43 3.467E-16		
C199 net16 in1#7 9.455E-18		
C200 out1#1 in1#1 9.950E-17		
C201 net089 in1#9 1.957E-17		
C202 net16 in1#4 2.346E-17		
C203 in3 net4#6 5.128E-17		
C204 out1#5 net43 3.753E-17		
C205 net16 gnd!#2 6.757E-17		
C206 net43 in3#2 7.311E-17		
C207 out1 net43 2.381E-17		
C208 in3 net16#6 7.108E-17		
C209 in1#1 gnd!#2 4.125E-16		
C210 net089#3 net43 1.872E-17		
C211 in1#9 in2#2 4.337E-18		
C212 in2#3 in1#8 6.743E-18		
C213 out1#3 in1#7 8.567E-18		
C214 in2#6 in3#4 5.470E-18		
C215 in2#5 in3#2 6.131E-18		
C216 out1#4 in2#5 4.191E-18		
C217 net4#5 in3#2 3.729E-18		
C218 in3 net4#8 5.763E-18		
C219 out1#5 net4#6 4.924E-18		
C220 vdd! gnd! 1.514E-15		
C221 in1 gnd! 7.912E-16		
C222 in3 gnd! 7.151E-17		
C223 out1 gnd! 3.420E-17		
C224 net16 gnd! 1.710E-16		

1	222	no+000	and 1 5225 16
			gnd! 1.523E-16
Ш			gnd! 6.350E-16
		in3#3 gnd!	
Ш		in2#4 gnd!	
Ш		in1#8 gnd!	
		in1#3 gnd!	
ll ll			gnd! 2.291E-18
		in3#4 gnd!	
Ш		in2#6 gnd!	
Ш			gnd! 1.630E-18
III.		in1#6 gnd!	
			gnd! 4.920E-16
		in3#2 gnd!	
ll.		in2#2 gnd!	
ll ll		in1#7 gnd!	
			gnd! 5.875E-18
III.		in3#1 gnd!	
ll ll			gnd! 5.465E-17
ll ll			gnd! 7.618E-17
			gnd! 4.664E-18
		in2#1 gnd!	
ll.			gnd! 2.373E-16
		in1#1 gnd!	
(C248	out1#2	gnd! 8.478E-18
(C249	in2#3 gnd!	1.030E-16
(C 2 50	vdd!#1	gnd! 4.092E-15
(C 251	vdd!#2	gnd! 1.181E-15
(C252	out1#4	gnd! 1.150E-19
(C253	net16#3	gnd! 2.314E-18
(C254	net089#4	gnd! 1.336E-18
(C255	out1#6	gnd! 1.133E-18
(C 2 56	net4#4	gnd! 3.130E-17
(C 257	vdd!#6	gnd! 1.873E-17
(C258	vdd!#5	gnd! 7.781E-17
(C259	out1#1	gnd! 9.117E-17
(C260	in1#4 gnd!	3.215E-16

EE520 | EE620 Cell Datasheet Page 14 of 14 27 September 2014 Name:_____

C261 in1#9 gnd! 5.471E-16
C262 in2#5 gnd! 4.853E-16
C263 vdd!#4 gnd! 5.686E-16
*
*
*
.ENDS zxw_mux2to1
*

