## S453A: RF-Structures: MOSFETs for modeling

GSG configuration with 100nm pitch and Metal1 ground shield

## **Structures**

DUT	Cell name	Gate dimensions [nf x (w x l)]	open	short
00	rfnmos	10 x (10μ x 0.13μ)	01	02
01	open	10 Λ (10μ Λ 0.13μ)	01	02
02	short			
03	rfnmos	4 x (5μ x 0.13μ)	04	05
04	open	ΤΑ (5μ Α 0.15μ)	01	0.5
05	short			
10	rfnmos	4 x (5μ x 10μ)	11	12
11	open	ΤΑ (5μ Α Τομ)	11	12
12	short			
13	rfpmos	4 x (5μ x 10μ)	11	12
14	rfnmosHV	4 x (5μ x 10μ)	11	12
15	open	111 (0 11 10 11)		
20	short			
21	rfpmosHV	4 x (5μ x 10μ)	11	12
22	rfnmos	4 x (5μ x 0.18μ)	11	12
23	rfnmos	4 x (5μ x 0.5μ)		
24	rfnmos	4 x (2.5μ x 0.13μ)	25	30
25	open	7 Λ (2.5μ Λ 0.15μ)	23	30
30	short			
31	rfnmos	4 x (7.5μ x 0.13μ)	32	33
32	open	(		
33	short			
34	rfnmos	8 x (2.5μ x 0.13μ)	35	40
35	open	0 ii (2.6 µ ii 0.16 µ)		
40	short			
41	rfnmos	5 x (10μ x 0.13μ)	42	43
42	open			
43	short			
44	rfnmos	1 x (10μ x 0.13μ)	45	50
45	open			
50	short			
51	rfnmos	10 x (1μ x 0.13μ)	52	53
52	open	(	_	
53	short			
54	rfnmos	1 x (5μ x 0.13μ)	55	60
55	open			
60	short			
61	rfpmos	10 x (10μ x 0.13μ)	01	02
62	rfpmos	4 x (5μ x 0.13μ)	04	05
63	rfpmos	4 x (5μ x 0.18μ)		
64	rfpmos	4 x (5μ x 0.5μ)	84	85
65	rfpmos	4 x (2.5μ x 0.13μ)	25	30
70	rfpmos	4 x (7.5μ x 0.13μ)	32	33
71	rfpmos	8 x (2.5μ x 0.13μ)	35	40
72	rfpmos	5 x (10μ x 0.13μ)	42	43
73	rfpmos	1 x (10μ x 0.13μ)	45	50
74	rfpmos	10 x (1μ x 0.13μ)	52	53
75	rfpmos	1 x (5μ x 0.13μ)	55	60
80	rfnmosHV	10 x (10μ x 0.45μ)	81	82
81	open			
82	short			
83	rfnmosHV	4 x (5μ x 0.45μ)	84	85

84	open			
85	short			
90	rfnmosHV	4 x (5μ x 0.5μ)	84	85
91	rfnmosHV	4 x (2.5μ x 0.45μ)	92	93
92	open			
93	short			
94	rfnmosHV	4 x (7.5μ x 0.45μ)	95	A0
95	open			
A0	short			
A1	rfnmosHV	8 x (2.5μ x 0.45μ)	A2	A3
A2	open			
A3	short			
A4	rfnmosHV	5 x (10μ x 0.45μ)	A5	В0
A5	open			
В0	short			
B1	rfnmosHV	1 x (10μ x 0.45μ)	B2	В3
B2	open			
В3	short			
B4	rfnmosHV	10 x (1μ x 0.45μ)	B5	C0
B5	open			
C0	short			
C1	rfnmosHV	1 x (5μ x 0.45μ)	C2	C3
C2	open			
C3	short			
C4	rfpmosHV	10 x (10μ x 0.4μ)	52	53
C5	rfpmosHV	4 x (5μ x 0.4μ)	84	85
D0	rfpmosHV	4 x (5μ x 0.5μ)	84	85
D1	rfpmosHV	$4 \times (2.5 \mu \times 0.4 \mu)$	92	93
D2	rfpmosHV	4 x (7.5μ x 0.4μ)	95	A0
D3	rfpmosHV	8 x (2.5μ x 0.4μ)	A2	A3
D4	rfpmosHV	5 x (10μ x 0.4μ)	A5	В0
D5	rfpmosHV	1 x (10μ x 0.4μ)	B2	В3
E0	rfpmosHV	10 x (1μ x 0.4μ)	B5	C0
E1	rfpmosHV	1 x (5μ x 0.4μ)	C2	C3
E2	empty			
E3	empty			
E4	empty			
E5	empty			