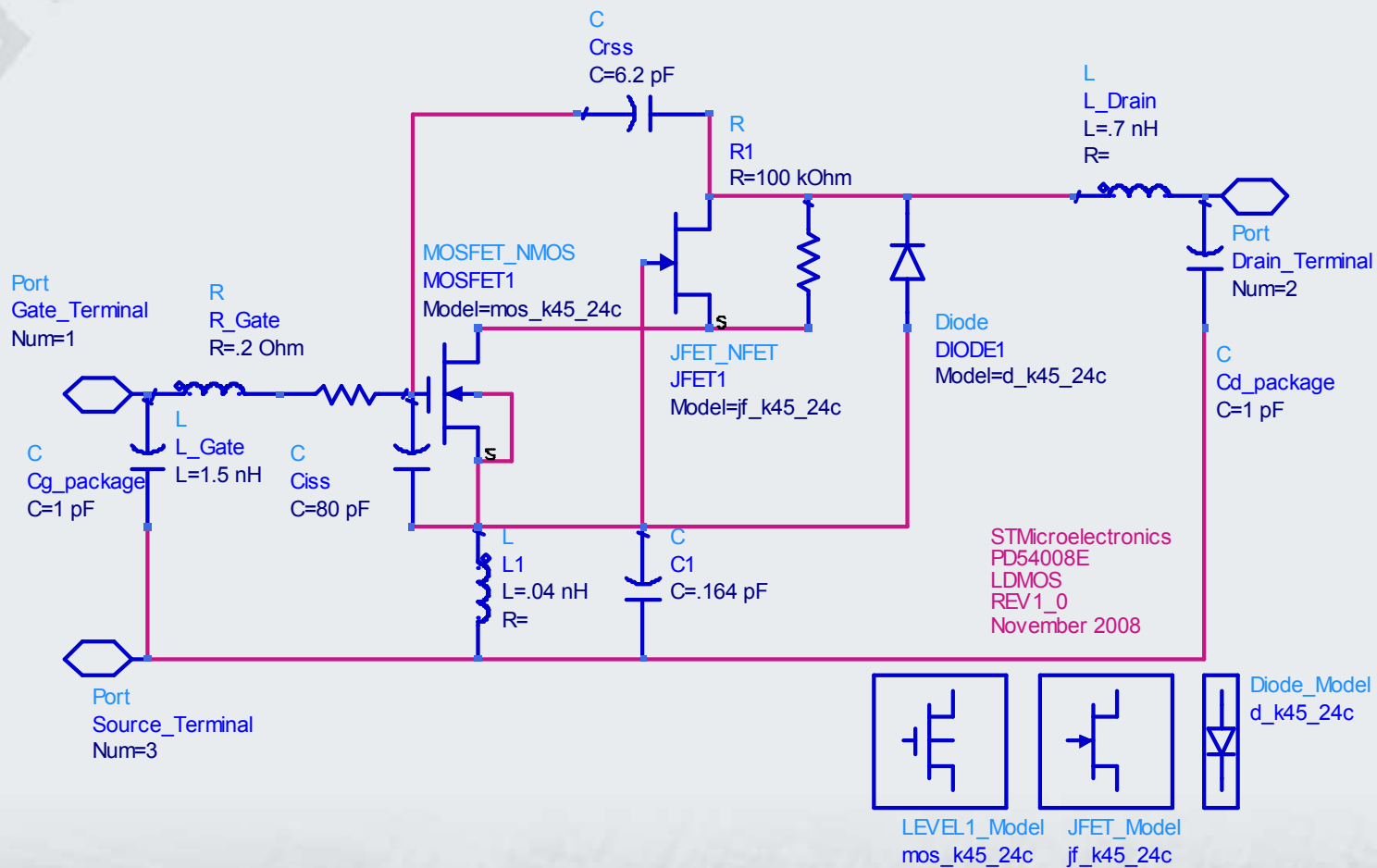


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Model validation

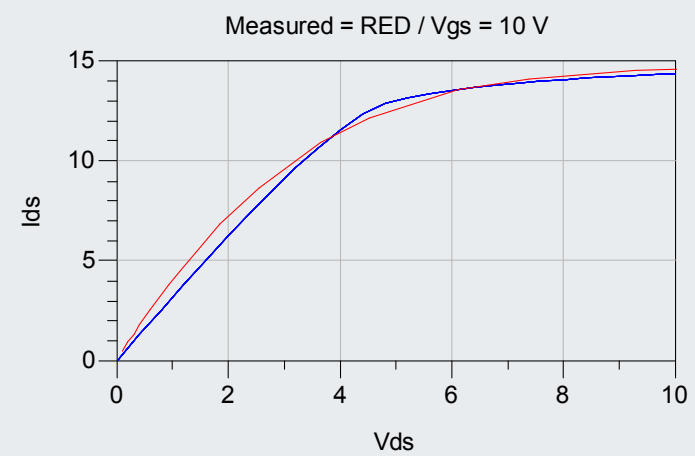
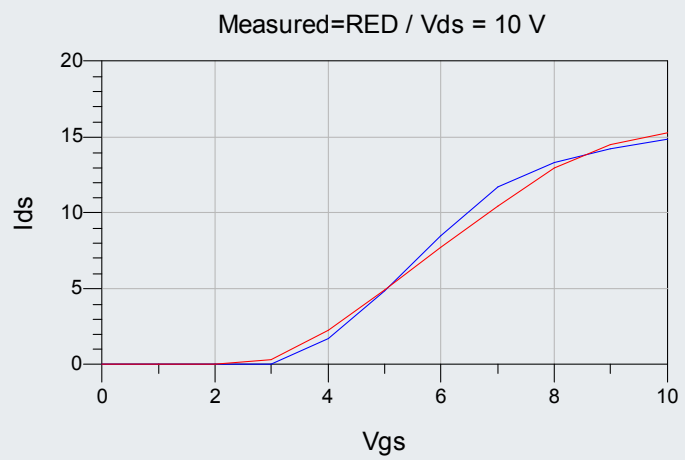


Quakertown , PA
Qtn-jp-209-rev1
November 18 , 2008



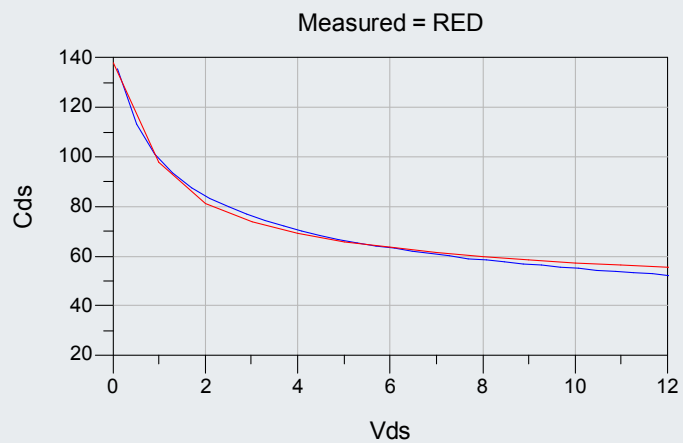
PD54008E

DC



PD54008E

C_{ds}



VBias	Coss_pF	
	freq=1.000 MHz	
0.000	145.200	
1.000	99.045	
2.000	84.286	
3.000	76.036	
4.000	70.503	
5.000	66.427	
6.000	63.245	
7.000	60.662	
8.000	58.504	
9.000	56.663	
10.000	55.064	
11.000	53.657	
12.000	52.405	



PD54008E

S-parameter

Measured

freq	S(1,1)	S(1,2)	S(2,1)	S(2,2)
50.00 MHz	0.771 / -164.000	0.036 / -4.000	7.800 / 86.000	0.773 / -164.000
100.0 MHz	0.819 / -170.000	0.034 / -14.000	3.810 / 75.000	0.786 / -170.000
150.0 MHz	0.850 / -172.000	0.033 / -21.000	2.470 / 65.000	0.800 / -171.000
200.0 MHz	0.865 / -174.000	0.030 / -28.000	1.760 / 57.000	0.826 / -172.000
250.0 MHz	0.881 / -175.000	0.028 / -35.000	1.320 / 50.000	0.847 / -172.000
300.0 MHz	0.896 / -176.000	0.025 / -39.000	1.030 / 43.000	0.867 / -173.000
350.0 MHz	0.909 / -176.000	0.023 / -43.000	0.820 / 38.000	0.886 / -174.000
400.0 MHz	0.921 / -177.000	0.021 / -46.000	0.670 / 33.000	0.897 / -175.000
450.0 MHz	0.930 / -178.000	0.018 / -51.000	0.560 / 29.000	0.912 / -176.000
500.0 MHz	0.939 / -179.000	0.016 / -52.000	0.470 / 24.000	0.924 / -177.000
550.0 MHz	0.944 / -179.000	0.014 / -53.000	0.400 / 21.000	0.930 / -178.000
600.0 MHz	0.952 / -179.000	0.013 / -56.000	0.350 / 18.000	0.938 / -179.000
650.0 MHz	0.956 / -178.000	0.011 / -55.000	0.300 / 15.000	0.943 / -180.000

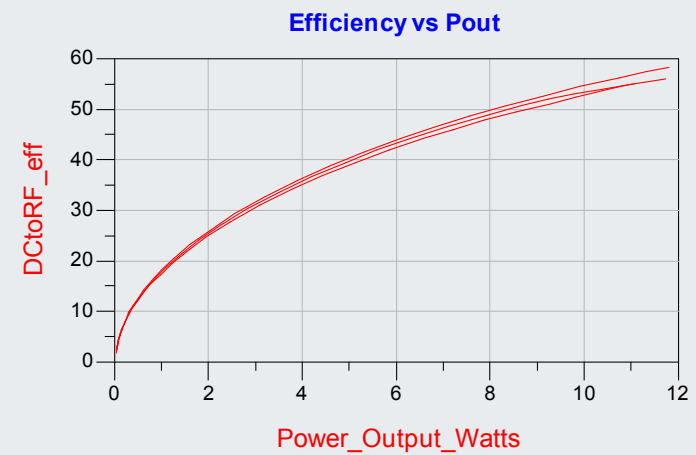
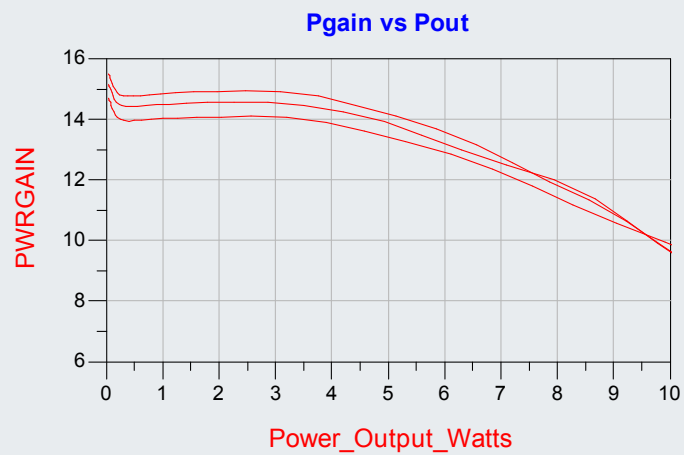
Simulated

freq	S(1,1)	S(1,2)	S(2,1)	S(2,2)
50.00 MHz	0.805 / -161.927	0.025 / -1.843	14.378 / 87.243	0.708 / -158.424
100.0 MHz	0.818 / -169.547	0.024 / -14.378	6.958 / 73.776	0.730 / -164.798
150.0 MHz	0.839 / -172.227	0.022 / -23.534	4.379 / 63.651	0.763 / -166.399
200.0 MHz	0.861 / -174.079	0.020 / -30.978	3.068 / 55.181	0.798 / -167.512
250.0 MHz	0.881 / -175.792	0.018 / -37.056	2.261 / 47.993	0.829 / -168.712
300.0 MHz	0.899 / -177.493	0.016 / -41.953	1.737 / 41.870	0.856 / -170.017
350.0 MHz	0.914 / -179.188	0.014 / -45.808	1.373 / 36.630	0.878 / -171.359
400.0 MHz	0.926 / -179.138	0.012 / -48.720	1.110 / 32.117	0.896 / -172.687
450.0 MHz	0.935 / -177.494	0.011 / -50.742	0.915 / 28.198	0.911 / -173.972
500.0 MHz	0.943 / -175.885	0.009 / -51.864	0.767 / 24.767	0.922 / -175.199
550.0 MHz	0.950 / -174.311	0.008 / -51.998	0.651 / 21.738	0.932 / -176.367
600.0 MHz	0.955 / -172.769	0.007 / -50.946	0.560 / 19.043	0.939 / -177.477
650.0 MHz	0.959 / -171.255	0.006 / -48.339	0.487 / 16.629	0.946 / -178.534



PD54008E

480 MHz – 520 MHz Large Signal RF



PD54008E

175 MHz – 225 MHz Large Signal RF

