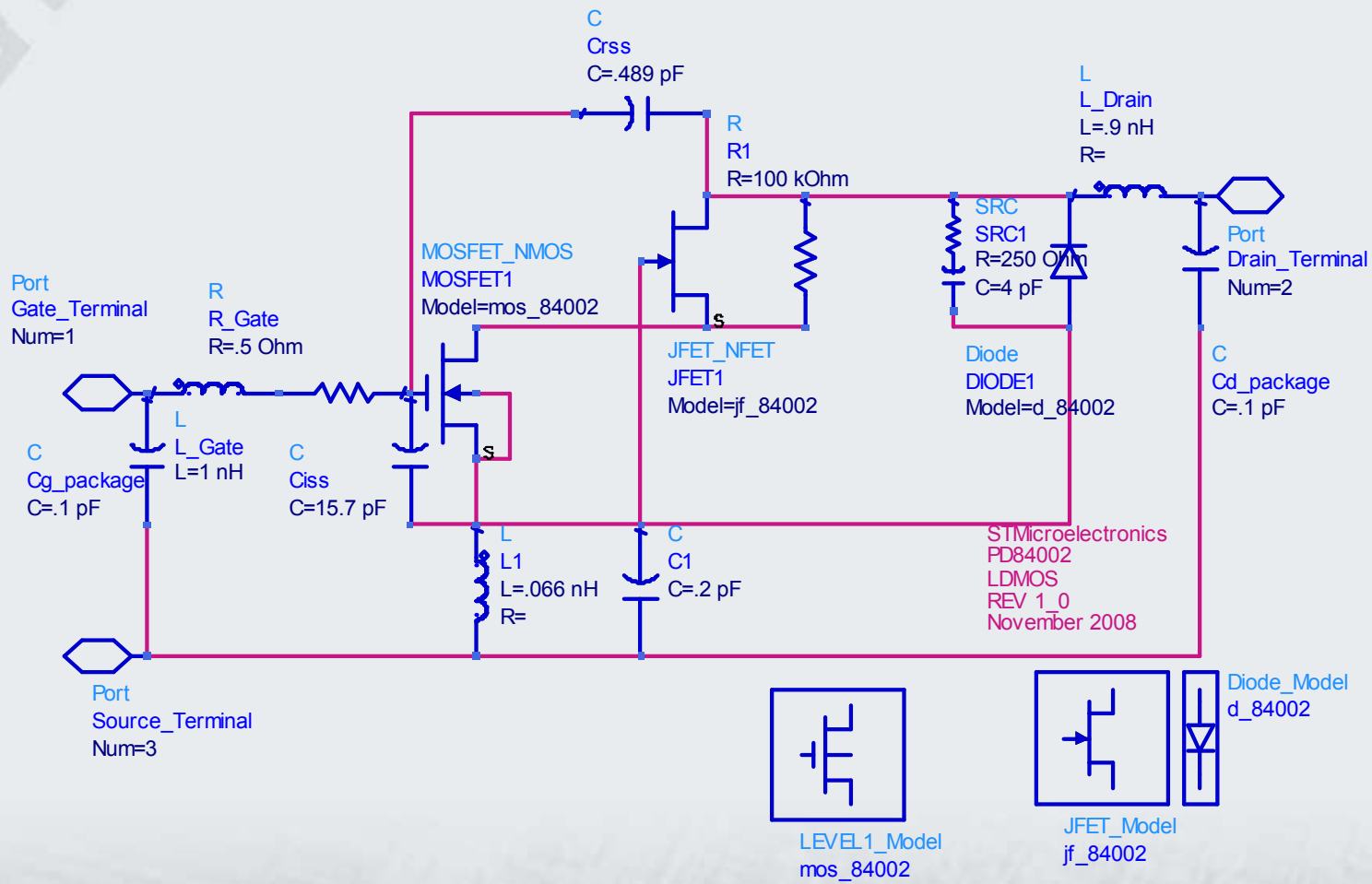


PD84002_rev1_0
Model Validation

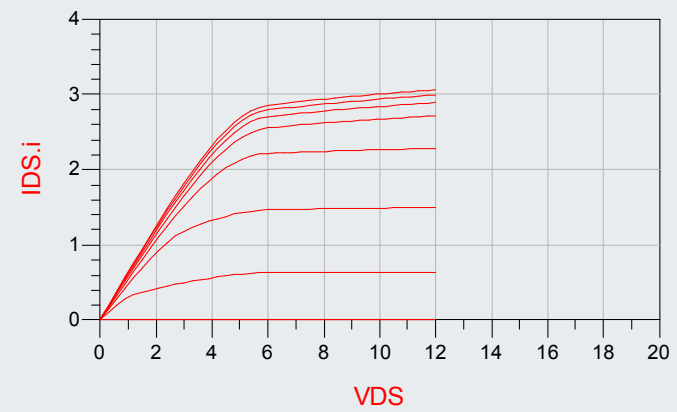
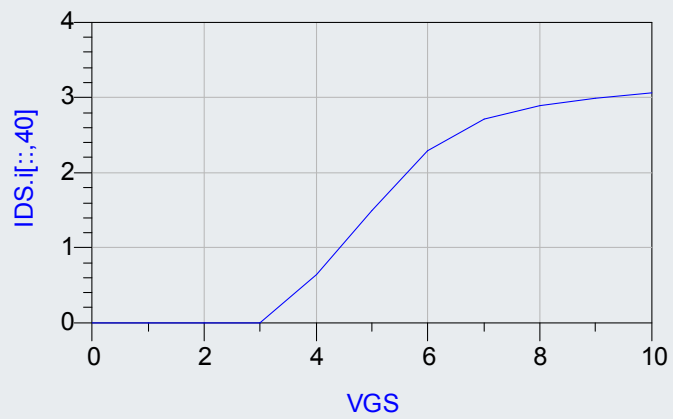


Quakertown , PA
Qtn-jp-286-rev1
November 7 , 2008



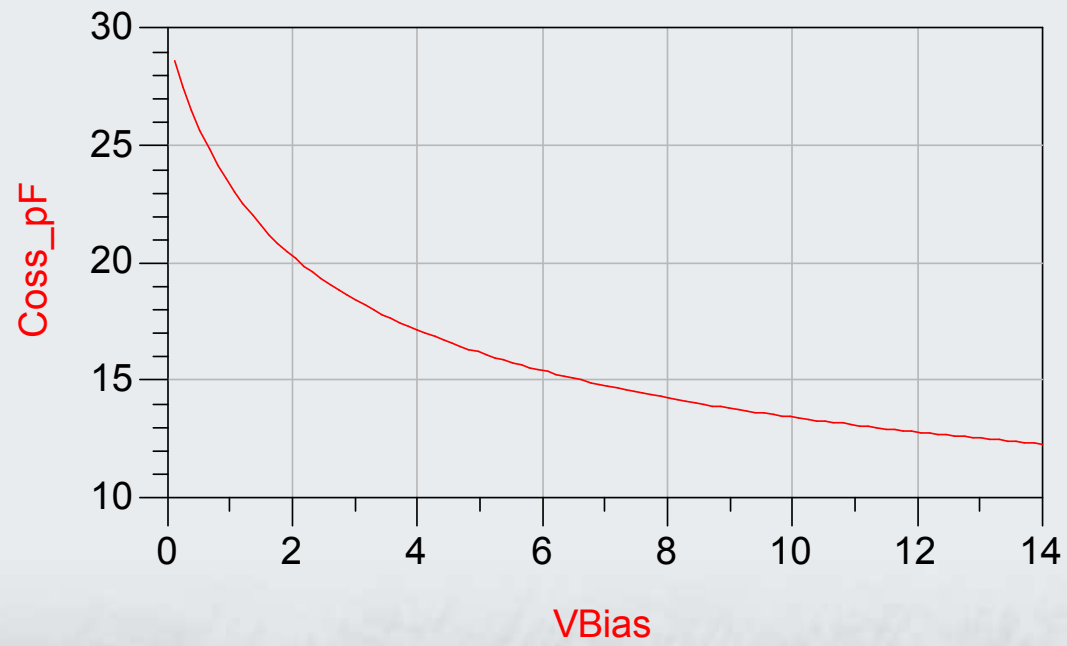
PD84002

DC



PD84002

Cds



PD84002

S-parameter

7.5 V 100 mA

measured

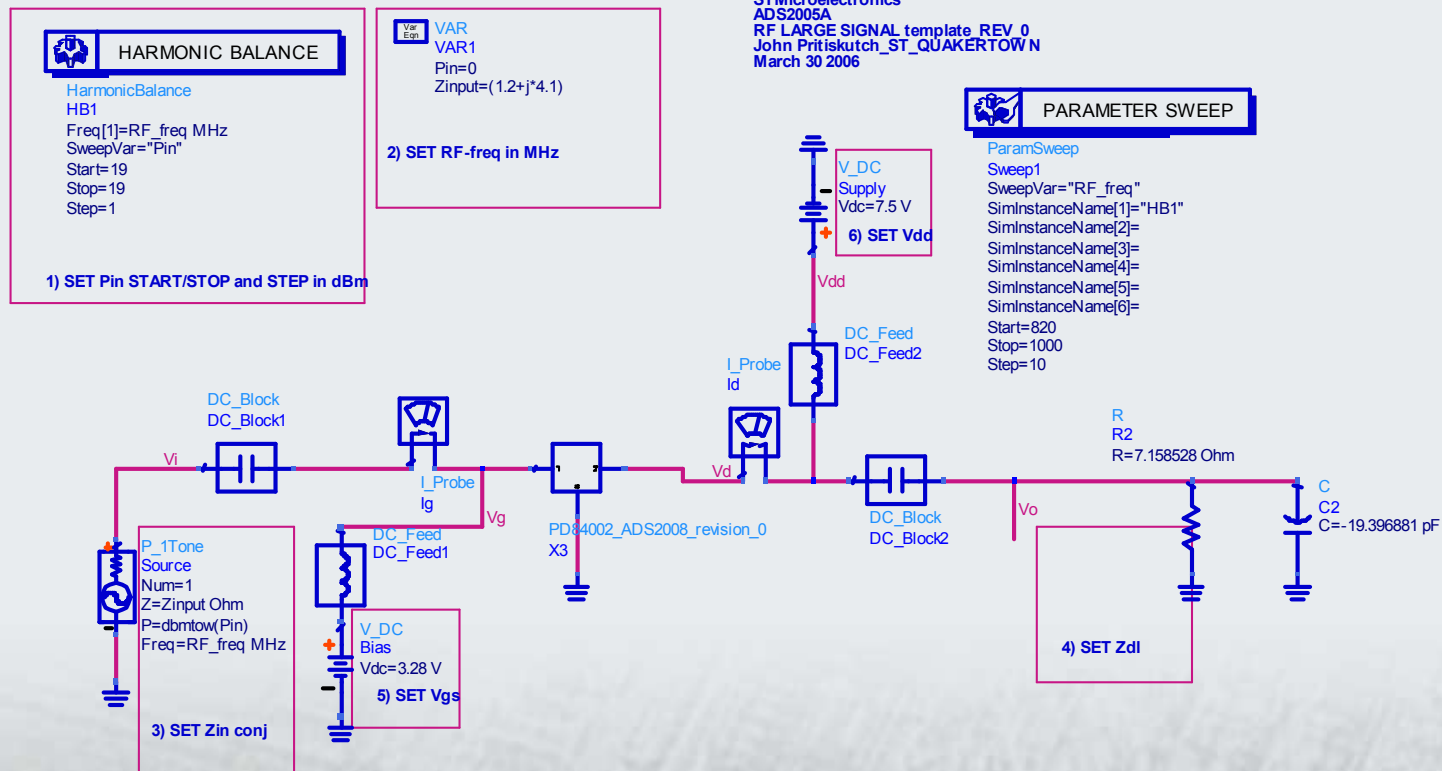
freq	S(1,1)	S(2,1)	S(1,2)	S(2,2)
200.0 MHz	0.778 / -104.2...	13.782 / 99.244	0.032 / 13.582	0.693 / -95.502
300.0 MHz	0.778 / -123.9...	9.447 / 79.631	0.032 / -5.256	0.688 / -114.4...
400.0 MHz	0.791 / -136.0...	6.817 / 66.121	0.029 / -17.169	0.721 / -127.2...
500.0 MHz	0.813 / -145.3...	5.128 / 54.589	0.027 / -28.144	0.754 / -135.7...
600.0 MHz	0.834 / -152.2...	3.992 / 45.358	0.024 / -35.794	0.777 / -143.0...
700.0 MHz	0.857 / -157.8...	3.186 / 37.934	0.020 / -40.444	0.805 / -148.9...
800.0 MHz	0.871 / -162.5...	2.597 / 31.407	0.018 / -44.600	0.828 / -153.6...
900.0 MHz	0.888 / -167.1...	2.154 / 25.273	0.014 / -48.094	0.840 / -158.3...
1.000 GHz	0.893 / -171.0...	1.806 / 19.755	0.012 / -50.370	0.859 / -163.0...

simulated

freq	S(1,1)	S(2,1)	S(1,2)	S(2,2)
200.0 MHz	0.782 / -117.7...	19.934 / 95.101	0.021 / 8.375	0.619 / -107.7...
300.0 MHz	0.787 / -135.1...	13.391 / 80.178	0.020 / -4.493	0.620 / -122.5...
400.0 MHz	0.804 / -145.6...	9.741 / 68.964	0.018 / -13.293	0.652 / -131.7...
500.0 MHz	0.824 / -152.9...	7.432 / 59.756	0.016 / -19.495	0.691 / -138.7...
600.0 MHz	0.843 / -158.5...	5.854 / 51.895	0.013 / -23.349	0.730 / -144.6...
700.0 MHz	0.861 / -163.2...	4.721 / 45.048	0.011 / -24.417	0.765 / -149.7...
800.0 MHz	0.876 / -167.3...	3.878 / 39.005	0.008 / -21.330	0.796 / -154.4...
900.0 MHz	0.890 / -170.9...	3.235 / 33.622	0.006 / -10.933	0.822 / -158.6...
1.000 GHz	0.901 / -174.3...	2.733 / 28.786	0.005 / 11.269	0.844 / -162.4...



Large Signal template using PD84002 equivalent input /output load 820 MHz -1000MHz



PD84002

820 MHz – 1000 MHz Large Signal RF

