



PD85004 DC







PD85004 Cds





PD85004 S-Parameters 13.6 V, 100 mA

Measured

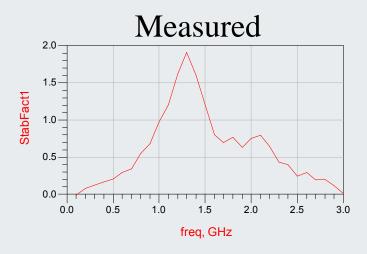
100.0 MHz	freq	S(1,1)	S(2,1)	S(1,2)	S(2,2)
2.600 GHz 0.963 / 152.333 0.403 / -31.409 0.021 / 62.868 0.933 / 166.154 2.700 GHz 0.961 / 150.064 0.376 / -34.015 0.021 / 58.763 0.948 / 163.253 2.800 GHz 0.962 / 147.635 0.368 / -36.854 0.024 / 56.657 0.945 / 159.727	100 0 MHz 2 200 0 MHz 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.896 / 58 623 0.840 / 47 002 0.836 / 148 887 0.841 / 142 894 0.871 / 142 894 0.871 / 145 538 0.897 / 146 577 0.971 / 146 577 0.972 / 177 489 0.972 / 177 489 0.973 / 177 481 0.973 / 177 481 0.973 / 178 493 0.974 / 178 893 0.974 / 178 893 0.975 / 178 89	21.178 / 133.154 15.006 / 103.607 11.007 / 82.521 7.6967 / 67.608 8 4.887 / 45.417 3.727 / 37.507 2.512 / 24.101 2.104 / 18.434 1.7967 / 13.507 1.327 / 37.507 2.512 / 24.101 2.104 / 18.434 1.7967 / 33.207 1.337 / 47.80 0.832 / 8.792 0.832 /	0.016 / 51.337 0.023 / 18.201 0.023 / 18.201 0.023 / 1.106 0.021 / 1.06 0.021 / 1.06 0.021 / 1.06 0.021 / 1.05 0.04 0.017 / 1.5 304 0.017 / 32.437 0.014 / 37.061 0.007 / 42.076 0.007 / 4	0.846 / 47.195. 0.797 / 76.576 0.737 / 36.662 / 76.576 0.737 / 36.662 / 76.576 0.762 / 77.566 / 76.576 0.805 / 131.284 / 76.576 0.805 / 131.284 / 76.566 / 7
	2.300 GHz 2.400 GHz 2.500 GHz 2.600 GHz 2.700 GHz 2.800 GHz	0.960 / 158.475 0.959 / 156.771 0.960 / 154.608 0.963 / 152.333 0.961 / 150.064 0.962 / 147.635	0.493 / -23.537 0.459 / -25.449 0.428 / -28.438 0.403 / -31.638 0.376 / -34.015 0.360 / -36.854	0.016 / 62.939 0.018 / 65.057 0.019 / 60.890 0.021 / 62.868 0.021 / 58.763 0.024 / 56.957	0.925 / 169.004 0.933 / 168.408 0.945 / 165.895 0.933 / 166.154 0.948 / 163.253 0.945 / 159.727

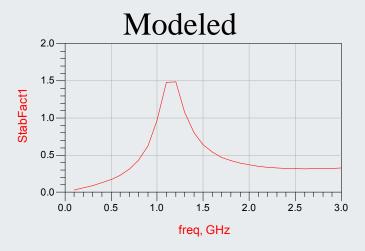
Modeled

freq	S(1,1)	S(2,1)	S(1,2)	S(2,2)
100 D MHz 200 O MHz 200 D	0.826 / 48.992 0.766 / -110.540 0.761 / -110.540 0.761 / -135.848 0.840 / -157.642 0.880 / -157.642 0.880 / -170.744 0.880 / -170.744 0.980 / -170.74	36,893 / 119 228 21,384 / 191,886 14,046 / 76,404 9,438 / 53,400 5,737 / 45,397 4,441 / 38,524 3,020 / 27,423 2,522 / 28,392 2,522 / 28,392 2,522 / 28,392 1,226 / 15,024 1,276 / 15,024 1,027 / 15,024 1	0.019 / 30 271 0.022 / 3.961 0.021 / 11.361 0.021 / 11.361 0.011 / 10.021 0.011 / 10.021 0.011 / 10.021 0.011 / 10.021 0.001 / 10.021	0.776 / 75.856 0.888 / 1/23.966 0.773 / 1/23.966 0.773 / 1/23.966 0.773 / 1/23.962 0.808 / 1/48.264 0.807 / 1/23.962 0.808 / 1/23.962 0.807 / 1/23.962 0.807 / 1/23.962 0.907 / 1/23.962 0.908 / 1/23.9



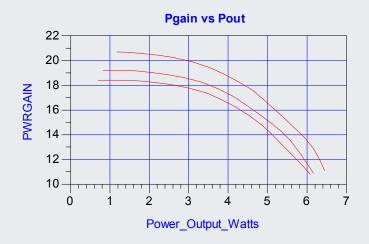
PD85004 Stability factor 13.6 V, 100 mA

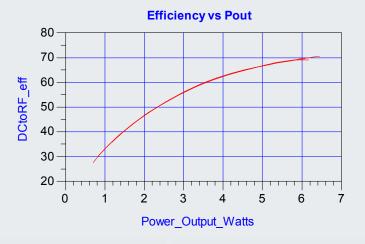






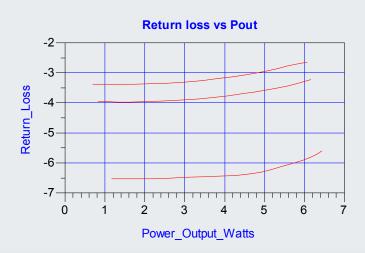
PD85004 860 MHz ,910 MHz, 960 MHz Large Signal RF







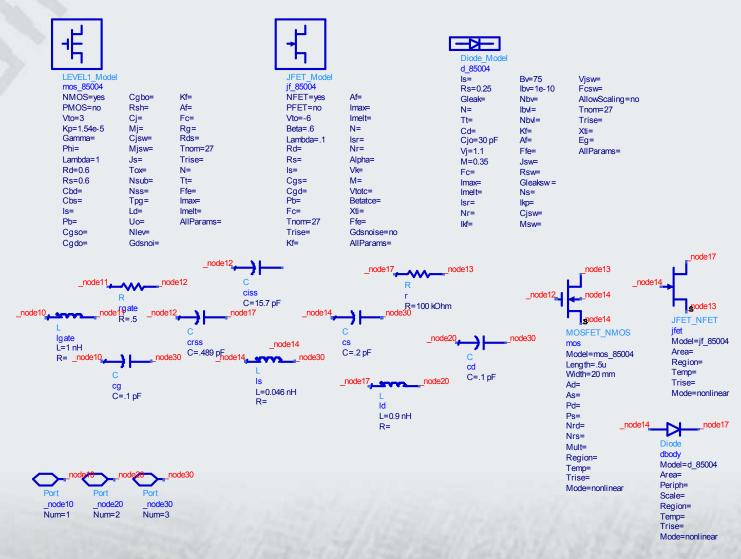
PD85004 860 MHz ,910 MHz, 960 MHz Large Signal RF





GENERIC NETLIST

- *PD85004 rev1 0
- *1/27/2009
- *STMicroelectronics
- *port 1 = GATE, 2 = Drain, 3 = Source
- *
- .SUBCKT PD85004 10 20 30
- LGATE 10 11 1N
- RGATE 11 12 .5
- CG 10 30 .1P
- CRSS 12 17 .489P
- CISS 12 14 15.7P
- LS 14 30 0.046N
- CS 14 30 .2P
- R 17 13 100K
- LD 17 20 0.9N
- CD 20 30 .1P
- MOS 13 12 14 14 mos_85004 L=.5UM W= 20mM
- JFET 17 14 13 jf_85004
- DBODY 14 17 d 85004
- .MODEL mos_85004 nmos (vto=3 KP=1.54E-5 LAMBDA=1 RD=0.6 RS=0.6)
- .MODEL jf_85004 njf (VTO=-6 BETA=.6 LAMBDA=.1)
- .MODEL d_85004 d (CJO=30p RS=0.25 VJ=1.1 M=0.35 BV=75)
- .ENDS





DC_FET
DC_FET1
VGS_start=0
VGS_stop=10
VGS_points=101
VDS_start=0
VDS_stop=16.0
VDS_points=41

