

MET LDMOS Model vs. Measured Data

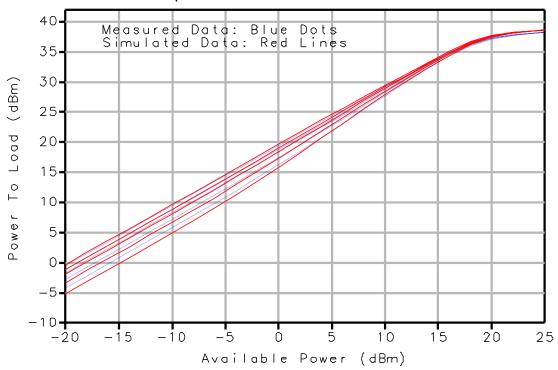
Under single and two tone excitation for 5 different bias conditions of a 10 mm device used in the MRF18090A, MRF18090AS, MRF18090B, MRF18090B, MRF19090, MRF19090S, MRF18060A, MRF18060AS, MRF18060B, MRF18060BS, MRF19060, MRF19060S and MRF21060 products.

Devices were tuned for best compromise between output power and efficiency.



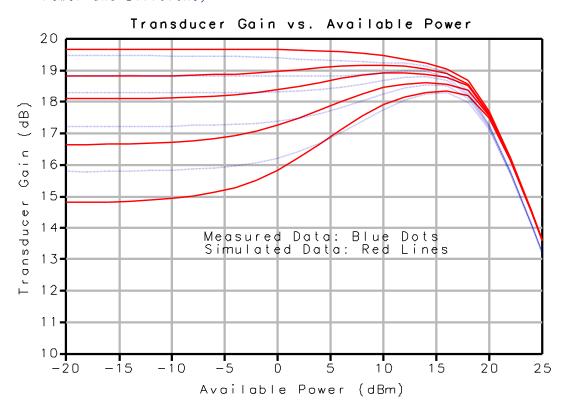
Single Tone (1.96 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090B, MRF18090BS, MRF19090S, MRF18060A, MRF18060AS, MRF18060B, MRF18060BS, MRF19060C, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power and Efficiency

Output Power vs. Available Power



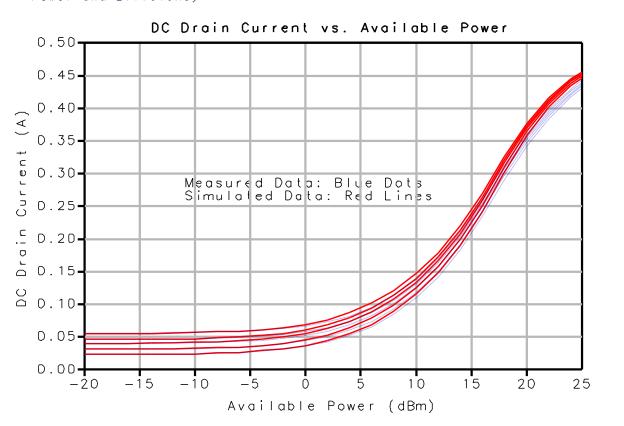


Single Tone (1.96 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF18090BS, MRF19090S, MRF18060AS, MRF18060AS, MRF18060BS, MRF19060C, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power and Efficiency



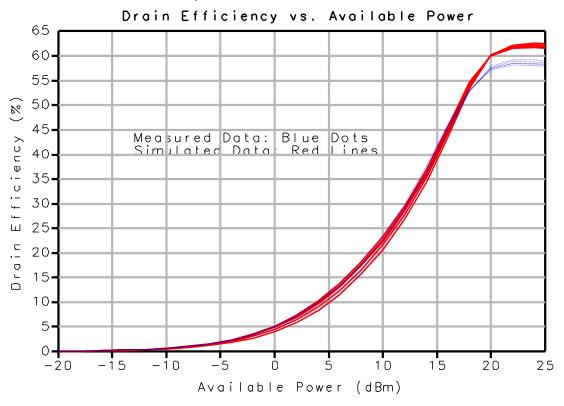


Single Tone (1.96 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF19090S, MRF19090S, MRF18060A, MRF18060AS, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power and Efficiency



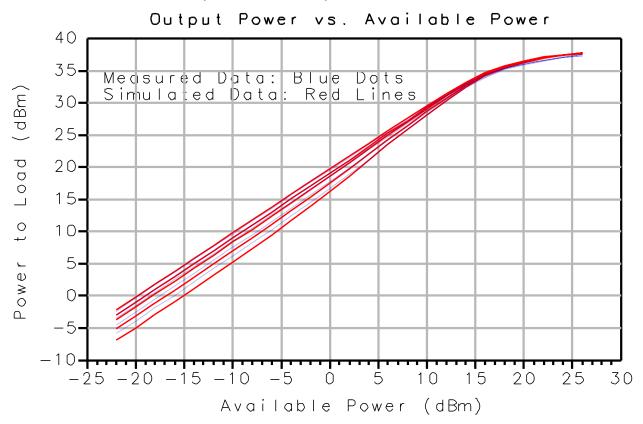


Single Tone (1.96 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090B, MRF18090BS, MRF19090, MRF19090S, MRF18060AS, MRF18060AS, MRF18060B, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power and Efficiency





Two Tone (1.96 and 1.97 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF19090S, MRF18060AS, MRF18060AS, MRF18060BS, MRF19060S, MRF19060S, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Linearity



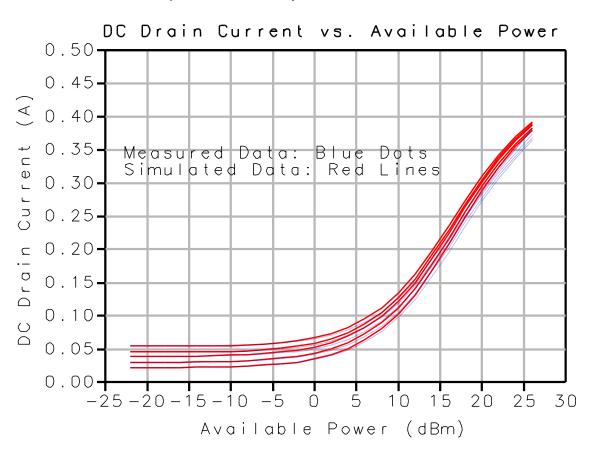


Two Tone (1.96 and 1.97 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A. MRF18090AS, MRF18090BS, MRF19090, MRF19090S, MRF18060A, MRF18060AS, MRF18060BS, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Linearity



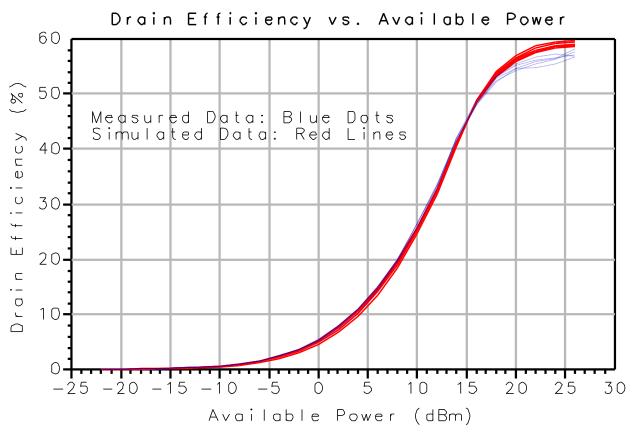


Two Tone (1.96 and 1.97 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF19090S, MRF18060A, MRF18060AS, MRF18060BS, MRF19060S, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Linearity



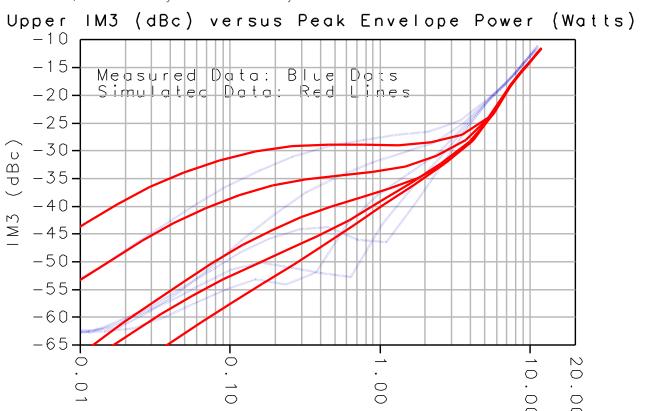


Two Tone (1.96 and 1.97 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF19090S, MRF18060A, MRF18060AS, MRF18060BS, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power. Efficiency and Linearity





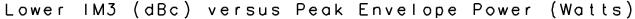
Two Tone (1.96 and 1.97 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF18090BS, MRF19090S, MRF18060A, MRF18060AS, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Linearity

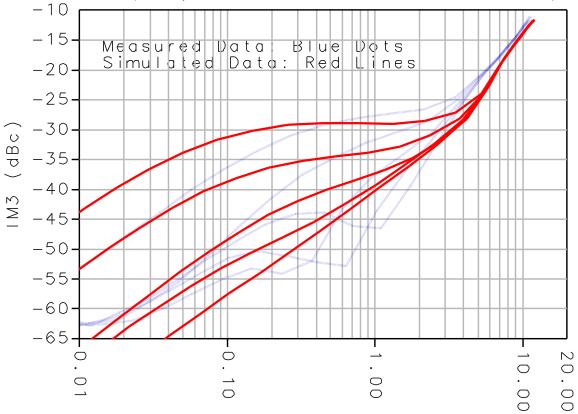


Peak Envelope Power (Watts)



Two Tone (1.96 and 1.97 GHz) Simulated LDMOS MET Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090B, MRF18090B, MRF19090S, MRF18060A, MRF18060AS, MRF18060B, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Linearity





Peak Envelope Power (Watts)



Root LDMOS Model vs. Measured Data

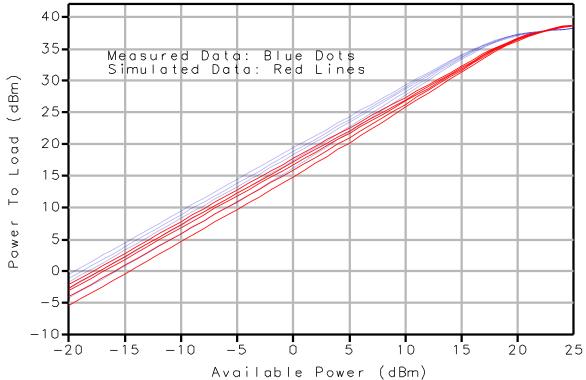
Under single and two tone excitation for 5 different bias conditions of a 10 mm device used in the MRF18090A, MRF18090AS, MRF18090B, MRF18090B, MRF19090, MRF19090S, MRF18060A, MRF18060AS, MRF18060B, MRF18060BS, MRF19060, MRF19060S and MRF21060 products.

Devices were tuned for best compromise between output power and efficiency.



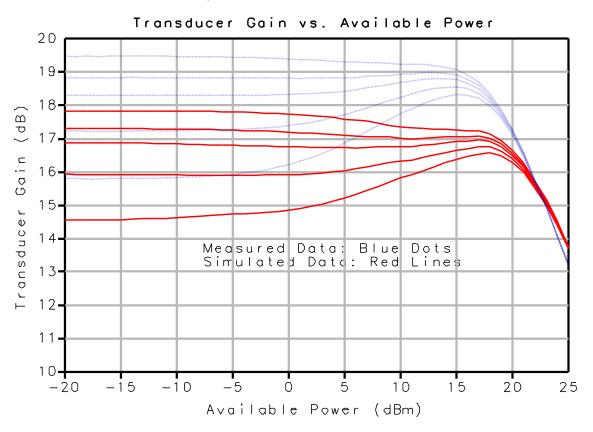
Single Tone (1.96 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF19090, MRF190905, MRF18060A, MRF18060AS, MRF18060BS, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power and Efficiency





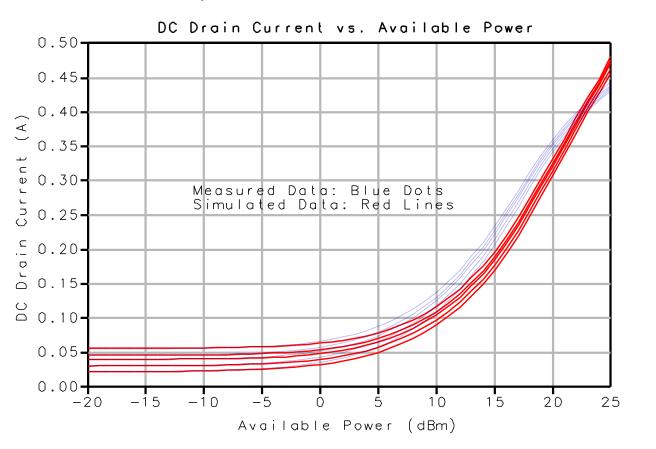


Single Tone (1.96 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090B, MRF18090BS, MRF19090S, MRF18060A, MRF18060AS, MRF18060BS, MRF19060S, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power and Efficiency



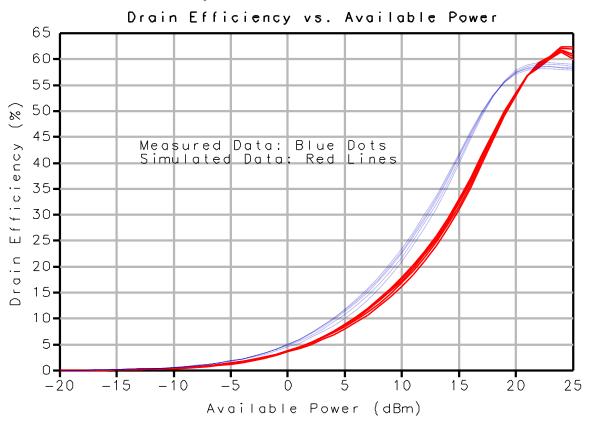


Single Tone (1.96 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF19090, MRF19090S, MRF18060AS, MRF18060AS, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power and Efficiency



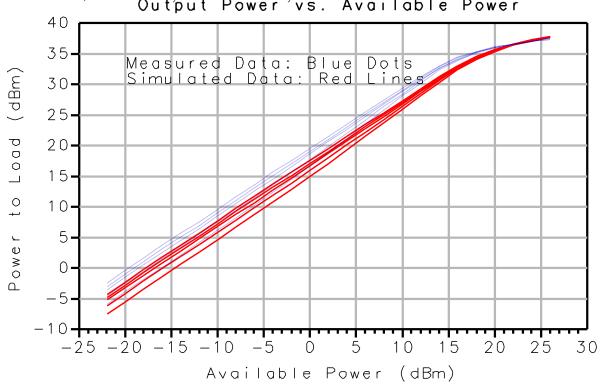


Single Tone (1.96 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF18090BS, MRF19090S, MRF18060A, MRF18060AS, MRF18060BS, MRF19060S, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power and Efficiency



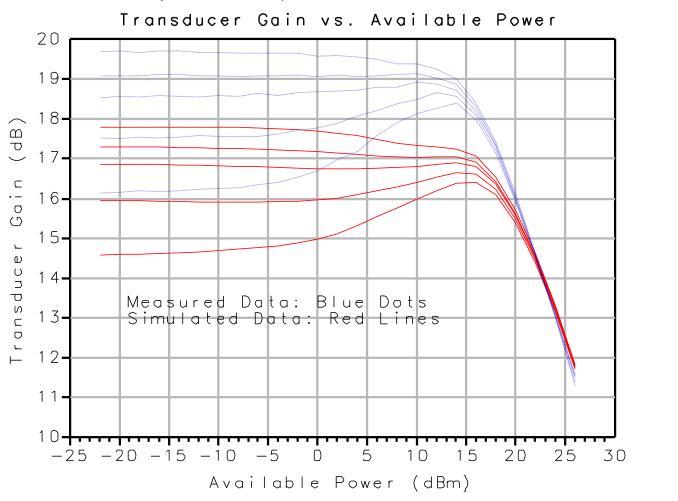


Two Tone (1.96 and 1.97 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF18090BS, MRF19090S, MRF18060AS, MRF18060BS, MRF19060S, MRF19060S, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Pinearity vs. Available Power



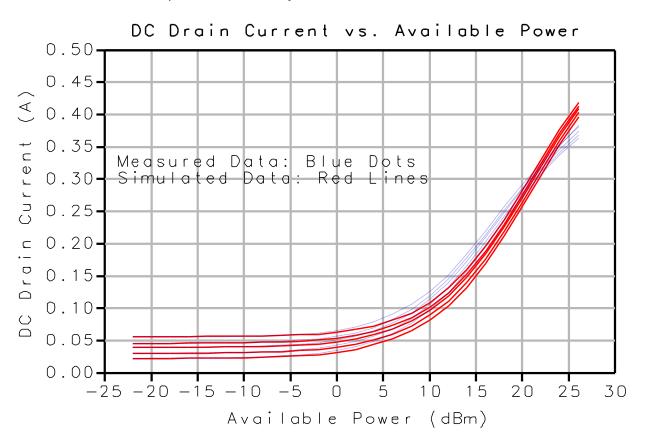


Two Tone (1.96 and 1.97 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF18090BS, MRF19090S, MRF18060A, MRF18060AS, MRF18060BS, MRF19060S, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Linearity



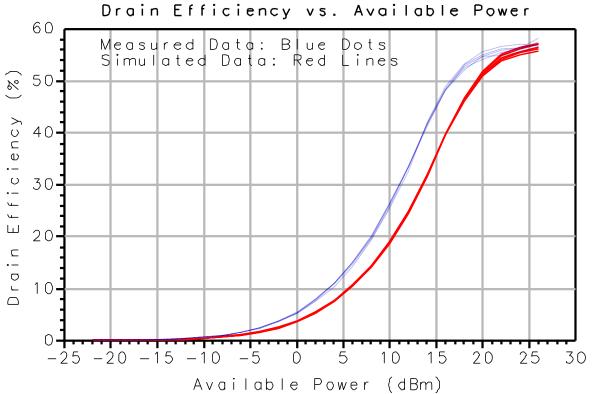


Two Tone (1.96 and 1.97 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF19090S, MRF18060A, MRF18060AS, MRF18060BS, MRF19060S, MRF19060S, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Linearity



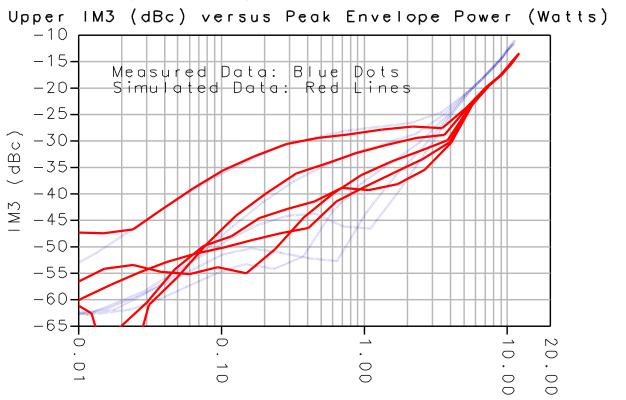


Two Tone (1.96 and 1.97 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF18090BS, MRF19090S, MRF18060A, MRF18060AS, MRF18060B, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Linearity





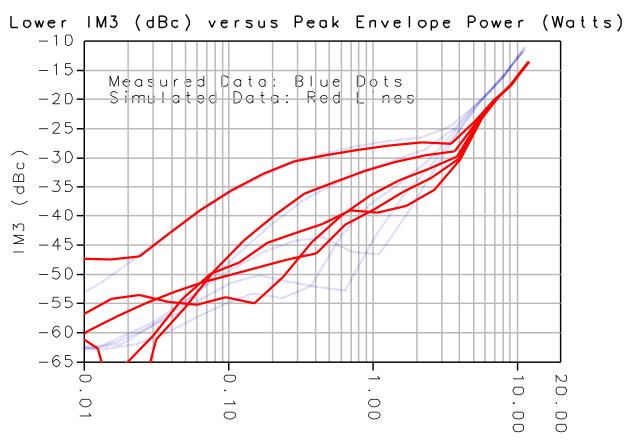
Two Tone (1.96 and 1.97 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF18090BS, MRF19090S, MRF18060A. MRF18060AS. MRF18060B. MRF18060BS. MRF19060. MRF1906OS and MRF2106O. Tuned for Best Compromise Between Output Power, Efficiency and Linearity



Peak Envelope Power (Watts)



Two Tone (1.96 and 1.97 GHz) Simulated LDMOS Root Model versus Measured Data for 5 Different Bias Conditions of a 10 mm Device Used in the MRF18090A, MRF18090AS, MRF18090BS, MRF19090, MRF19090S, MRF18060AS, MRF18060AS, MRF18060BS, MRF19060, MRF19060S and MRF21060. Tuned for Best Compromise Between Output Power, Efficiency and Linearity



Peak Envelope Power (Watts)