

Engineer Zone

ADI DPD Metrics

Noureddine Outaleb



ADI 200MHz DPD Metrics

PA Metrics	Target Specs
Nominal Output Power [W/dBm]	5W/37dBm
DE @ Pout [%]	45%
P3dB/Psat [dBm] P1dB [dBm]	+45.5dBm 44dBm
Gain Flatness [dB] Over OBW – 200MHz Over DPD BW – 500MHz	+1 +3
Phase Linearity [deg.] Over OBW – 200MHz Over DPD BW – 500MHz	12 deg. pk-pk 20 deg. pk-pk
IMD3_lo/hi Delta [dB] IMD5_lo/hi Delta [dB]	3dB max 6dB max
Open Loop ACLR [dBc] 10MHz LTE (PAR=8dB)	-30dBc
Modulated AM-AM [dB] 10MHz LTE (PAR=8dB)	-3dB
Modulated AM-PM (deg.) 10MHz LTE (PAR=8dB)	-20 deg.