

W237AT Transmission System Calculations

Effective Radiated Power:	0.085 Kilowatt (horizontal/vertical)
Antenna:	Nicom BKG7 1 Bay One bay full wavelength antenna
Power Gain	-3.03 dB
Transmission Line: (384 feet)	Andrew LDF5-50A 7/8 inch foam dielectric 0.36 dB/100 ft -1.3824 dB Total
Andrew 3 ft Jumper	-0.01 dB
Barrel Adapter	-0.01 dB
Eupen 3 ft Jumper	-0.01 dB
Lightning Arrestor	-0.005 dB
Eupen 2 ft Jumper	-0.01 dB
N - DIN Adapter	-0.005 dB
Total Losses:	-4.4624 dB
Transmission System Efficiency:	35.79 %
Required Transmitter Power Output To Reach Effective Radiated Power:	0.2375 Kilowatt (238 watts)