

Transmitter Output Power Calculation

Date 2019-10-24

File No. 0 **Facility ID** 68292

K228BR TULSA OKLAHOMA

93.5 MHz **Channel** 228

ERP 0.250 kW

Antenna ERI **Model** LPX-2E-HW-SP **Bays:** 2 **Spacing:** Half Wave

Antenna Power Gain 0.690 -1.612 dB

Antenna Input Power 0.362 kW For 0.250 kW ERP

Transmission Line Losses

Manufacturer RFS HCA50 Series

Type 7/8 inch Air Dielectric

Loss per 100 feet -0.347 dB At: 93.5 MHz

Transmission Line Length 320 ft

Transmission Line Loss -1.111 dB

Efficiency 77.4%

Additional System Losses

Filter -0.6 dB

Isolator 0 dB

Misc 0 dB

Total Losses -1.711 dB

System Efficiency 67.44%

Transmitter Output 0.537 kW For 0.250 kW ERP



