

Transmitter Output Power Calculation

Date 2021-02-04

File No. 0000131379 Facility ID 0011289873

K224FN Pine Bluff Arkansas

92.7 MHz Channel 224

ERP 0.250 kW

Antenna Shively Model 6812B Bays: 1 Spacing: Half Wave

Antenna Power Gain 0.458 -3.391 dB

Antenna Input Power 0.546 kW For 0.250 kW ERP

Transmission Line Losses

Manufacturer RFS LCF50 Series

Type 7/8 inch Foam Dielectric

Loss per 100 feet -0.335 dB At: 92.7 MHz

Transmission Line Length 215 ft

Transmission Line Loss -0.721 dB

Efficiency 84.7%

Additional System Losses

Filter 0 dB

Isolator -0.6 dB

Misc 0 dB

Total Losses -1.321 dB

System Efficiency 73.77%

Transmitter Output 0.740 kW For 0.250 kW ERP

