

Educational Media Foundation

5700 West Oaks Boulevard
Rocklin, CA 95765

*Mesquite, NV
KAER-Aux*

Transmitter Power Output Calculation

Transmitter Power Output

Authorized ERP: 9000 watts

Shively 6025-2-1-DA-Special Antenna Power Gain: 7.679

218 feet RFS Cablewave LCF78-50A 7/8" Air Coax Efficiency: 0.846

15' 7/8" jumper efficiency: .998

AAT BP-1R-3-7K Bandpass Filter Efficiency: .908

TPO: 1528.8014 watts

Confirmation: $1528.8014 \times 7.679 \times .846 \times .998 \times .908 = 8999.9987$ Watts

NOTE: TPO SHOWN AS 1529 WATTS RATHER THAN 1528.8014 WATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM.