

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Vernal, UT
K201IZ

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: .205 KILOWATTS

NICOM BKG77-1 ANTENNA GAIN: .47

109 FEET RFS CABLEWAVE 1/2-INCH FOAM COAX (LCF12-50) EFFICIENCY: 0.857

SHIVELY 2916-3 BANDPASS FILTER EFFICIENCY: .789

13' 1/2" FOAM JUMPER EFFICIENCY: .982

TPO: 656.8809

CONFIRMATION: $656.8809 \times .47 \times .857 \times .789 \times .982 = 204.9999$ WATTS

NOTE: TPO SHOWN AS .657 KW DUE TO ROUNDING AND THE RESOLUTION OF THE FORM.