

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Kalispell, TX
K224DV

Transmitter Power Output Calculation

The purpose of this license modification application is to specify a change in the transmitter power output calculation due to the addition of a bandpass filter.

TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 250 WATTS

NICOM BKG77 SINGLE BAY ANTENNA GAIN: 0.47

AAT BP-1R-3-1K-N BANDPASS FILTER EFFICIENCY: .918

142 FEET EUPEN 7/8-INCH FOAM COAX (EC5-50) EFFICIENCY: 0.895

10' 7/8" JUMPER EFFICIENCY: .992

TPO: 652.6266 WATTS

CONFIRMATION: $652.6266 \times .47 \times .918 \times .895 \times .992 = 250.000$ WATTS

NOTE: TRANSMITTER POWER OUTPUT FIGURE SHOWN AS .653KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.