

**Educational Media Foundation**  
5700 West Oaks Boulevard  
Rocklin, CA 95765

*Waltham, MA*  
*WKVB-FM3*

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 1400 WATTS

1 BAY SHIVELY 6025 ANTENNA GAIN: 3.7

290 FEET RFS CABLEWAVE 7/8-INCH FOAM COAX (LCF78-50JA) EFFICIENCY: 0.783

COMBINER EFFICIENCY: 0.84

2 JUMPERS AND SURGE PROTECTOR EFFICIENCY: 0.79

TPO: 728.2125 WATTS

CONFIRMATION:  $728.2125 \times 3.700 \times 0.783 \times .84 \times .79 = 1399.9997$  WATTS

NOTE: TPO IS SHOWN AS .729 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM