

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

*Lubbock, TX*  
*KKLU*

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 25 KILOWATTS

ERI SHPX-6AC ANTENNA GAIN: 3.306

550 FEET MYATT 3-1/8-INCH RIGID AIR COAX EFFICIENCY: 0.894

50' JUMPER ANDREW HJ8-50B 3" AIR COX EFFICIENCY: .984

SHIVELY BANDPASS FILTER 2516-3A EFFICIENCY: .917

TPO: 9,374.2211 WATTS

CONFIRMATION:  $9,374.2211 \times 3.306 \times .894 \times .984 \times .917 = 24,999.997$  WATTS

NOTE: TPO SHOWN AS 9.374 KW DUE TO ROUNDING AND THE RESOLUTION OF THE FORM.