

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

KPLV  
*Corpus Christi, TX*

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 13.5 KILOWATTS

ERI SHPXA-16BC-HW-SP ANTENNA GAIN: 4.427

976 FEET MYATT 6 1/8" RIGID TRANSMISSION LINE EFFICIENCY: .903

68 FEET MYATT 1-5/8-INCH RIGID TRANSMISSION LINE EFFICIENCY: 0.972

ERI COMBINER EFFICIENCY: .887

TPO: 3916.9369 WATTS

CONFIRMATION:  $3916.9369 \times 4.427 \times .903 \times .972 \times .887 = 13499.997$  WATTS

NOTE: TPO SHOWN AS 3.917 KW DUE TO ROUNDING AND THE RESOLUTION OF THE FORM.