

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

*The Dalles, OR*  
*K215CR*

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 0.01 KILOWATTS

2 BAY NICOM BKG77 0.85 SPACED ANTENNA GAIN: 0.9

70 FEET RFS 7/8-INCH FOAM COAX (LCF78-50JA) EFFICIENCY: 0.947

COMBINER EFFICIENCY: .794

(2) ½" JUMPERS 6' AND 8' EFFICIENCY: .98

TPO: 15.0785 WATTS

CONFIRMATION:  $15.0785 \times 0.9 \times 0.947 \times .794 \times .98 = 9.9999$  WATTS

NOTE: TPO IS SHOWN AS .015 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM