

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

*K257EP*  
Dilworth, MN

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 250 WATTS

2 BAY BKG77 2 BAY ANTENNA GAIN: .9

312 FEET RFS CABLEWAVE LCF78-50JA 7/8' FOAM COAX EFFICIENCY: 0.776

POLYPHASOR LIGHTNING PROTECTOR EFFICIENCY: 0.977

SHIVELY 2914-3 BANDPASS FILTER EFFICIENCY: .724

TPO: 506.0607 WATTS

CONFIRMATION:  $506.0607 \times .9 \times .776 \times .977 \times .724 = 249.9999$  WATTS

NOTE: TPO SHOWN AS .506KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.