

**Educational Media Foundation**

5700 West Oaks Boulevard  
Rocklin, CA 95765

*Santa Barbara, CA  
K227BI*

**Transmitter Power Output Calculation**

Transmitter Power Output

AUTHORIZED ERP: 20 WATTS

SCALA CL-FM ANTENNA POWER GAIN: 4.46

40 FEET ANDREW LDF4-50A 1/2 INCH COAX EFFICIENCY: 0.943

EMF BAND PASS FILTER, TWO CAVITY: 0.759

6DB RF ATTENUATOR EFFICIENCY: 0.251

TPO: 24.9613 WATTS

CONFIRMATION:  $24.9613 \times 0.251 \times 0.759 \times 0.943 \times 4.46 = 19.9999$  WATTS

NOTE: TPO SHOWN AS .025 Kilowatts DUE TO ROUNDING AND RESOLUTION OF THE FORM.