

Educational Media Foundation

5700 West Oaks Boulevard
Rocklin, CA 95765

Rockaway Beach, OR
KAIK

Transmitter Power Output Calculation

Transmitter Power Output

Authorized ERP: 60 watts

Nicom BKG77-1 Antenna Power Gain: .47

150 feet Andrew LDF4-50A ½" Foam Coax Efficiency: 0.807

Shively Branch Combiner BR-04(4)F Filter Efficiency: .758

4' LMR400 jumper efficiency: .99

TPO: 210.8023 watts

Confirmation: $210.8023 \times .47 \times .807 \times .758 \times .99 = 59.9999$ Watts

NOTE: TPO SHOWN AS 211 WATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM.