

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

St Paul, MN
W225AP

Transmitter Power Output Calculation

Transmitter Power Output

Authorized ERP: 250 watts

Scala CLFM-V array Antenna Power Gain: 2.3

Shively 2914 Bandpass Filter Efficiency: .79

10' Andrew FSJ4-50 Coax Jumper Efficiency: .977

100 feet RFS Cablewave 1/2" Foam Coax Efficiency: 0.864

TPO: 162.9959 watts

Confirmation: $162.9959 \times 2.3 \times .79 \times .977 \times .864 = 249.9999$ Watts

NOTE: TPO SHOWN AS .163KW RATHER THAN 162.9959 DUE TO ROUNDING AND RESOLUTION OF THE FORM.