

**Educational Media Foundation**  
5700 West Oaks Boulevard  
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Modesto, CA  
*K258AB*

## **Transmitter Power Output Calculation**

Transmitter Power Output

Authorized ERP: 250 watts  
SWR FMEC-1 bay Antenna Power Gain: .441  
Bandpass Filter Efficiency: .848  
176' 1/2" Coax Jumper Efficiency: .765  
(2) 1/2" jumpers and connector Efficiency: 0.955  
TPO: 915.0414 watts

Confirmation:  $915.0414 \times .441 \times .848 \times .765 \times 955 = 249.9999$  Watts

NOTE: TPO SHOWN AS .915kw RATHER THAN 915.0414 WATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM.