

Educational Media Foundation

5700 West Oaks Boulevard
Rocklin, CA 95765

*Baton Rouge, LA
K249DV*

Transmitter Power Output Calculation

Transmitter Power Output

ERP: 0.25kw

640 feet RFS Cablewave LCF78-50JA 7/8" foam Coax Efficiency: .598

ERI 100A-4F-HW Antenna Power Gain: 1.18

Shively Combiner/Filter Efficiency: .853

Jumper and Connector Efficiency: .95

TPO: 437.2040kw

Confirmation: $437.2040 \times .598 \times 1.18 \times .853 \times .95 = 249.9999$ watts

NOTE: TPO Shown as .437Kw Due To Rounding And Resolution Of The Form.