

Educational Media Foundation

5700 West Oaks Boulevard
Rocklin, CA 95765

*Franklin, TX
KVLX*

Transmitter Power Output Calculation

Transmitter Power Output

Authorized ERP: 8700 watts

SWR FM3 8 bay Antenna Power Gain: 4.311

35 feet RFS Cablewave 7/8" Coax Jumper Efficiency: .971

430 feet Andrew HJ11-50 4" Air Coax Efficiency: 0.893

TPO: 2327.3973 watts

Confirmation: $2327.3973 \times 4.311 \times .971 \times .893 = 8699.999$ Watts

NOTE: TPO SHOWN AS 2.33 kilowatts RATHER THAN 2.327 DUE TO ROUNDING AND RESOLUTION OF THE FORM.