

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Westborough, MA
WKVB

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 2.1 KILOWATTS

4 BAY ERI LPX-4C ANTENNA GAIN: 2.133

1228 FEET RFS CABLEWAVE 7/8-INCH FOAM COAX (HCA78-50) EFFICIENCY: 0.349

WATT METER AND REDUCER EFFICIENCY: .990

TPO: 2849.4944 WATTS

CONFIRMATION: $2849.4944 \times 2.133 \times 0.349 \times .990 = 2099.9998$ KILOWATTS

NOTE: TPO IS SHOWN AS 2.85 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM.