

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

The Dalles, OR
KDLZ

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: .57 KILOWATTS

2 BAY NICOM BKG77 0.85 SPACED ANTENNA GAIN: 0.90

70.5 FEET RFS 7/8-INCH FOAM COAX (LCF78-50JA) EFFICIENCY: 0.944

NICOM COMBINER EFFICIENCY: .794

(2) JUMPERS 1/2" TOTAL OF 16' EFFICIENCY: 0.976

TPO: 865.7450 WATTS

CONFIRMATION: $865.7450 \times 0.9 \times 0.944 \times .794 \times .976 = 569.9999$ WATTS

NOTE: TPO IS SHOWN AS .866 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM