

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Tucumcari, NM
KVLP

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 2.8 KILOWATTS

ERI LPX-3C ANTENNA GAIN: 1.559

100 FEET ANDREW 7/8-INCH AIR COAX (HJ5-50) EFFICIENCY: 0.922

AAT BANDPASS FILTER BP-IR-3-3K-N EFFICIENCY: .894

7' 7/8" COAX JUMPER EFFICIENCY: .970

TPO: 2246.3204 WATTS

CONFIRMATION: $2246.3204 \times 1.559 \times .922 \times .894 \times .970 = 2799.9996$ WATTS

NOTE: TPO SHOWN AS 2.247 KW DUE TO ROUNDING AND THE RESOLUTION OF THE FORM.