

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Ashtabula, OH
WOHK

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 3.2 KILOWATTS

2 BAY ERI LPX-2C ANTENNA GAIN: 0.997

428 FEET RFS 1-5/8 INCH AIR COAX (HCA158-50) EFFICIENCY: 0.831

SHIVELY 2606.3A BANDPASS FILTER EFFICIENCY: .912

10' 1-5/8" RIGID HARDLINE EFFICIENCY: .996

TPO: 4252.062 WATTS

CONFIRMATION: $4252.062 \times 0.997 \times 0.831 \times .912 \times .996 = 3,199.9996$ WATTS

NOTE: TPO IS SHOWN AS 4.252 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM