

**Educational Media Foundation**

5700 West Oaks Boulevard  
Rocklin, CA 95765

*Fort Washakie, WY*  
*KRKM*

**Transmitter Power Output Calculation**

Description: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 3.0 KILOWATTS

ERI LPX-6C ANTENNA GAIN: 3.43

135 FEET ANDREW 1 5/8" AIR COAX EFFICIENCY: 0.941

40' 3" RIGID HARDLINE EFFICIENCY: .992

JUMPER EFFICIENCY: .99

AAT C-IR-3-3-12K-N COMBINER EFFICIENCY: .794

TPO: 1191.9831 WATTS

CONFIRMATION:  $1191.9831 \times 3.43 \times .941 \times .992 \times .99 \times .794 = 2999.9994$  WATTS

NOTE: TPO IS SHOWN AS 1.192 KILOWATTS (100.04%) RATHER THAN 1.191 KILOWATTS (99.935%)