

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 99 WATTS

SCALA CA2-CP ANTENNA GAIN: 1.26

116.6 FEET ANDREW 1/2-INCH FOAM COAX (LDF4-50A) EFFICIENCY: 0.846

AAT BP-IR-3-1K-N BANDPASS FILTER EFFICIENCY: .756

3' 1/2" JUMPER EFFICIENCY: .996

TPO: 123.3426 WATTS

CONFIRMATION: $123.3426 \times 1.26 \times .846 \times .756 \times .996 = 98.9999$ WATTS

NOTE: TRANSMITTER POWER OUTPUT FIGURE SHOWN AS .124KW (100.53%) RATHER THAN .123KW (99.72%) DUE TO ROUNDING AND RESOLUTION OF THE FORM.