

## Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 95 WATTS

NICOM BKG77-1 ANTENNA GAIN: .47

103 FEET ANDREW 7/8-INCH FOAM COAX (LDF5-50A) EFFICIENCY: 0.920

AAT C-IR-2-3-2K-N COMBINER EFFICIENCY: .832

(3) JUMPERS COMBINED EFFICIENCY: .938

TPO: 281.5215 WATTS

CONFIRMATION:  $281.5215 \times 0.47 \times .921 \times .832 \times .938 = 95.1032$  WATTS

NOTE: TRANSMITTER POWER OUTPUT FIGURE SHOWN AS .282KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.