

## Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 3.5 KW

NICOM BKG-77-3 0.85 SPACING ANTENNA POWER GAIN: 1.41

128.8 FT EUPEN EC7-50 1-5/8 INCH COAX EFFICIENCY: 0.941

6 FT 7/8 INCH COAXIAL JUMPER EFFICIENCY: 0.995

AAT BP-IR-3-7K-N BANDPASS FILTER EFFICIENCY: 0.915

TPO: 2,897.4444 KW

CONFIRMATION:  $2,897.4444 \times 1.41 \times 0.941 \times 0.995 \times 0.915 = 3,499.9998$  WATTS

NOTE: TRANSMITTER POWER OUTPUT STATED AS 2.9KW DUE TO ROUNDING AND RESOLUTION OF THE FORM