

Transmitter Power Output Calculation

TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 180 WATTS

NICOM BKG77-1 ANTENNA GAIN: .47

65 FEET Andrew 7/8" foam line (LDF5-50A) EFFICIENCY: 0.95

Shively 2914-4-FB FILTER EFFICIENCY: 0.717

½" Jumper Efficiency: .968

TPO: 580.84 WATTS

CONFIRMATION: $580.84 \times 0.47 \times .95 \times .717 \times .968 = 179.9999$ WATTS

NOTE: TRANSMITTER POWER OUTPUT SHOWN AS .581KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.