

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 100 KILOWATTS

8 BAY ERI SHP-8AC6 ANTENNA GAIN: 4.487

155 FEET RIGID 4-1/16" TRANSMISSION LINE EFFICIENCY: 0.975

10 FEET RIGID 3-1/8" TRANSMISSION LINE EFFICIENCY: 0.997

AAT C-IR-2-4-60K-N COMBINER EFFICIENCY: .955

TPO: 24007.158 WATTS

CONFIRMATION: $24007.158 \times 4.487 \times 0.975 \times 0.997 \times 0.955 = 99,999.969$ WATTS

NOTE: TPO IS SHOWN AS 24.007 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM.