

Transmitter Power Output Calculation

AUTHORIZED ERP: 82 KILOWATTS

ERI SHPXA-16BC-HW-SP ANTENNA GAIN: 5.191

976 FEET ERI MAC 6 1/8" RIGID TRANSMISSION LINE EFFICIENCY: .895

55 FEET ERI MAC 1-5/8-INCH RIGID TRANSMISSION LINE EFFICIENCY: 0.998

ERI COMBINER EFFICIENCY: .957

TPO: 18479.799 WATTS

CONFIRMATION: $18479.799 \times 5.191 \times .895 \times .998 \times .957 = 81999.986$ WATTS

NOTE: TPO SHOWN AS 18.480 KW DUE TO ROUNDING AND THE RESOLUTION OF THE FORM.