

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 250 WATTS

RFS CP-500 2-BAY ANTENNA POWER GAIN: 0.930

122 FEET ANDREW LDF5-50A 7/8 INCH FOAM COAX EFFICIENCY: 0.907

SHIVELY 2914-4A BAND PASS FILTER EFFICIENCY: 0.733

6 FEET LMR 400 COAXIAL JUMPER EFFICIENCY: 0.984

TPO: 410.9137 WATTS

CONFIRMATION: $410.9137 \times 0.984 \times 0.733 \times 0.907 \times 0.930 = 249.9999$ WATTS

NOTE: TPO SHOWN AS 411 WATTS RATHER THAN 410.9137 WATTS DUE TO ROUNDING AND THE RESOLUTION OF THE FORM.