

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 75 WATTS

BEXT TFC2K-2 ANTENNA GAIN: .9

SHIVELY LABS FILTER EFFICIENCY: .733

480 FEET ANDREW 7/8-INCH FOAM COAX (AVA5-50) EFFICIENCY: 0.698

9' 1/2" SUPERFLEX FOAM JUMPER EFFICIENCY: .98

TPO: 166.2008 WATTS

CONFIRMATION: $166.2008 \times 0.9 \times .733 \times .698 \times .98 = 74.9999$ WATTS

NOTE: TRANSMITTER POWER OUTPUT FIGURE SHOWN AS .166KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.