

## Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 80 WATTS

RFS CPF500 ANTENNA GAIN: .447

431 FEET EUPEN 7/8-INCH FOAM COAX (EC5-50) EFFICIENCY: 0.710

POLYPHASOR SURGE PROTECTOR EFFICIENCY: .977

TPO: 258.0058 WATTS

CONFIRMATION:  $258.0058 \times .447 \times 0.71 \times .977 = 79.999$  WATTS

NOTE: TRANSMITTER POWER OUTPUT FIGURE SHOWN AS .258KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.