

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 150 WATTS

NICOM BKG77-1 ANTENNA GAIN: .47

345 FEET RFS 1/2-INCH FOAM COAX (LCF12-50) EFFICIENCY: 0.587

POLYPHASOR LIGHTNING PROTECTOR EFFICIENCY: .977

TPO: 556.4943 WATTS

CONFIRMATION:  $556.4943 \times .47 \times .587 \times .977 = 149.999$  WATTS

NOTE: TRANSMITTER POWER OUTPUT FIGURE SHOWN AS .557KW DUE TO ROUNDING AND RESOLUTION OF THE FORM.