

TRANSMITTER POWER CALCULATIONS FOR KJAS

ANTENNA GAIN FACTOR IS 2.3 OR 5.05 DB

400 FOOT TRANSMISSION LINE IS ANDREW HJ7-50A
ATTENUATION AT 107.3 MHZ IS .211 PER 100 FEET OR .84 FOR TOTAL RUN
THEREFORE TRANSMISSION LINE EFFICIENCY IS 82.34%

$\text{TPO} \times \text{ANTENNA EFFICIENCY} \times \text{ANTENNA POWER FACTOR} = \text{ERP}$

$2125 \times .8234 \times 3.2 = 5599.12 \text{ watts era}$