

W251CP
Mid Ohio Valley Radio Corporation

Transmitter Power Calculations

1. The antenna is an SWR model FM-1/1, circularly polarized, with a gain of .441
2. For an ERP of 250 watts, 567 watts are required at the antenna input.
3. The feed line is 250 feet of ½ inch foam coax, RFS LCF-12, efficiency of this length of coaxial cable is 69.42%.
4. Therefore the transmitter power out must be 817 watts.