

FINAL JEOPARDY

A Kenwood TS-2000 capable of 100 watts on 146.52 MHz is set to 50 watts. The antenna port is connected to a diplexer with a 1db insertion loss by a 1 foot piece of LMR-400 cable.

The antenna side of the diplexer is connected by 50 feet of LMR-400 cable which has a loss of 1.44 db per 100 feet.

The coax is then connected to a Comet GP-9 antenna that has a gain of 8.5 dbi at 146.52 Mhz.

What is the effective radiated power?