

Sound Communications, LLC

W277DG
Corning, NY

Transmitter Power Output Calculation

103.3mhz Transmitter Power Output Calculation

ERP: .025kw

150 feet Andrew LDF4-50A Coax Efficiency at 103.3mhz: .793

5' LMR600 efficiency: .991

6' LMR400 efficiency: .985

MFC Combiner Model 19494-103.3/106.7/2/0.2 combiner efficiency: .813 (.9db loss)

Jampro J3YF Antenna Power Gain: 2.818 (4.5db)

TPO: 14.097 watts

Confirmation: $14.097 \times .793 \times .991 \times .985 \times .813 \times 2.818 = 25.0000$ watts

Due to rounding, the TPO is calculated as 14 watts.