

TPO Calculations for W208BR

System Losses:

1. Transmission line – (Andrew LDF4-50A 64 meters) 1.31 dB
2. Bandpass Cavity (Telewave TBPC 1008-1) – 1 dB

Total System losses: 2.31 dB

Antenna Gain (SWR FMEC/2): 0

Net Loss: $2.31 - 0 = 2.31$ dB

ERP = 10 Watts

Convert to dBm

$10\log(10/.001) = 40$ dBm

TPO

$40 \text{ dBm} + 2.31 = 42.31$ dBm

Convert to Watts

$10^{(42.31/10)} \cdot .001 = 17$ watts