

Transmitter Power Output Worksheet

Call letters: W202AZ.C
City of License: Frankfort, KY
Frequency: CH202D (88.3 MHz)
File No: BPFT-20160928AFV
Facility ID: 82908
Applicant: BIBLE BROADCASTING NETWORK, INC.

Effective Radiated Power (ERP): 0.038 kW

Antenna Make: Nicom USA, Inc. (NIC)
Antenna Model: BKG1/P-1DA(SLANT45)
No of Elements: One (1)
Antenna COR AGL: 53 meters AGL
Antenna COR AMSL: 299 meters AMSL
Max Input Power: 1.0 kW

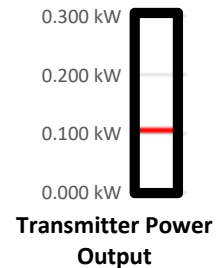
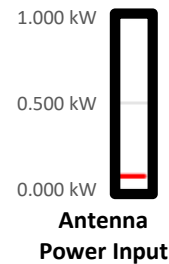
Power Gain: 0 dBd - 3 dBd = (-3 dBd) due to (H&V) Configuration

Antenna Gain: -3.000 dBd

Calculated Antenna Input Power: 0.076 kW

Transmitter Make/Model: Crown FM250

Transmitter Rated Power: 0.250 kW



Power Gain to Antenna gain (dBd) Conversion:
 =Log[power gain]*10

Inventory of System / Insertion Losses

Explanation	Component Make/Model	Length	Loss
Type N End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
1/2" Foam Feedline	Heliac LDF4-50A (0.642 dB/100 ft)	201 ft	-1.290 dBd
Type N End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Jumper to Transmitter	RG214 or equivalent (2.100 dB/100 ft)	3 ft	-0.063 dBd
Type N End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -4.41 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.105 kW
 (1 / [[10^(dB/10)/ERP]])