

Transmitter Power Output Worksheet

Call letters: W253CD.C
City of License: East Longmeadow, MA
Channel: CH253D (98.5 MHz)
File No: LMS-0000166841
Facility ID: 156452
Applicant: Saga Communications of New England, LLC

Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc. (NIC)
Antenna Model: BKG77/1L (NDA)
No of Elements: One (1)
Antenna COR AGL: 50.0 meters AGL
Antenna COR AMSL: 113.8 meters AMSL
Max Input Power: 1.00 kW

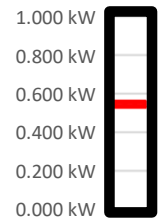
Power Gain: 0.47

Antenna Gain: -3.279 dBd

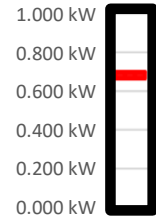
Calculated Antenna Input Power: 0.532 kW

Transmitter Rated Power: 1.000 kW

Transmitter Make/Model: GatesAir Fax1K



**Antenna
Power Input**



**Transmitter
Power Output**

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

Inventory of System / Insertion Losses

Explanation	Component Make/Model	Length	Loss
7/8" End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
7/8" Foam Feedline (Tower)	Cellflex LCF78-50JAA7 (0.345 dB/100 ft)	170 ft	-0.587 dBd
7/8" End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Isocoupler	Kintronics FMC-1.5	n/a	-0.200 dBd
7/8" End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
7/8" Foam Feedline (Tower)	Cellflex LCF78-50JAA7 (0.345 dB/100 ft)	30 ft	-0.104 dBd
7/8" End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -4.25 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.665 kW
 (1 / [[10⁴ dB/10]/ERP])