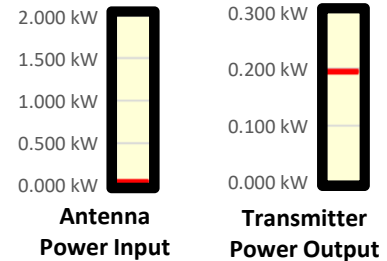


Transmitter Power Output Worksheet

Call letters: W268CS.L (License Modification)
City of License: Portland, ME
Channel: CH268D (101.5 MHz)
File No: License Modification of BLFT-20160913ABU
Facility ID: 148099
Applicant: Saga Communications of New England, LLC

Effective Radiated Power (ERP): 0.099 kW

Antenna Make: PSI (Propagation Systems, Inc.)
Antenna Model: FMT-4A
No of Elements: Four (4)
Antenna COR AGL: 89 meters AGL
Antenna COR AMSL: 111 meters AMSL
Max Input Power: 2.00 kW
Power Gain: 2.1
Antenna Gain: 3.222 dBd
Calculated Antenna Input Power: 0.047 kW
Transmitter Rated Power: 0.300 kW
Transmitter Make/Model: GatesAir FAX300



Power Gain to Antenna gain (dBd) Conversion:
 $= \text{Log}[\text{power gain}] * 10$

Inventory of System / Insertion Losses

Explanation	Component Make/Model		Length	Loss
7/8 Inch End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
7/8 Inch Foam Feedline (Tower)	CellFlex LCF78-50JA	(0.368 dB/100 ft)	290 ft	-1.067 dBd
7/8 Inch End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
AM Isocoupler	Kintronic FMC 1.5 Isolation Transformer		n/a	-0.200 dBd
7/8 Inch End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
7/8 Inch Foam Feedline (Ground)	CellFlex LCF78-50JA	(0.368 dB/100 ft)	360 ft	-1.325 dBd
7/8 Inch End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Directional Coupler (RF Monitor)	Shively Model 078F-2P		n/a	-0.050 dBd
7/8 Inch End Plate Adapter	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper Cable	Superflex FSJ4-50B	(1.081 dB/100 ft)	6 ft	-0.065 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Combiner (1)	Shively Model 2940-N-1-4 Balanced Combiner		n/a	-0.050 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper Cable	Superflex FSJ4-50B	(1.081 dB/100 ft)	6 ft	-0.065 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Combiner (2)	Shively Model 2930-4/03/4 Branched Combiner		n/a	-1.280 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper Cable	Superflex FSJ4-50B	(1.081 dB/100 ft)	6 ft	-0.065 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Notch Filter	Shively Model 2914-3FB Pass-Notch Filter		n/a	-1.400 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper Cable	Superflex FSJ4-50B	(1.081 dB/100 ft)	6 ft	-0.065 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Coax Switch	Dow Key 412R-320132 Coax Switch		n/a	-0.150 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd
Jumper Cable	Superflex FSJ4-50B	(1.081 dB/100 ft)	6 ft	-0.065 dBd
Type N End Connector	Generic (1@0.02 dB each)		n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -2.904 dBd
CALCULATED TRANSMITTER POWER OUTPUT: 0.193 kW
 $(1 / [10^{(2.904/10)} \text{ ERP}])$