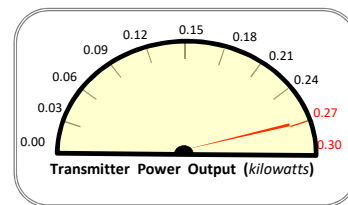


Transmitter Power Output Worksheet

Call letters: W276CB.L (License Modification)
City of License: Keene, NH
Channel: CH276D (103.1 MHz)
File No: BLFT-20140416AAD
Facility ID: 81840
Applicant: Saga Communications of New England, LLC



Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Nicom USA, Inc. (NIC)
Antenna Model: BKG77/3 (NDA)
No of Elements: Three (3)
Antenna COR AGL: 50 meters AGL
Antenna COR AMSL: 193 meters AMSL
Max Input Power: 1.50 kW

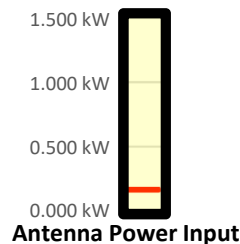
Power Gain: 1.5588

Antenna Gain: 1.928 dBd

Calculated Antenna Input Power: 0.160 kW

Transmitter Rated Power: 0.300 kW

Transmitter Make/Model: Crown 300



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

Inventory of System / Insertion Losses

Explanation	Component Make/Model	Length	Loss
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
7/8" Foam Feedline (Tower)	Heliac AVA-50FX (LDF5-50A) (0.360 dB/100 ft)	155 ft	-0.558 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
AM Isocoupler	Kintronic Coil Choke Isocoupler	n/a	-0.860 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
7/8" Foam Feedline	Heliac AVA-50FX (LDF5-50A) (0.360 dB/100 ft)	10 ft	-0.036 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Quad Signal Combiner	Shively Model 2390 (Custom)	n/a	-0.750 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Jumper to Transmitter	RG-8 (or equalvalent) (2.000 dB/100 ft)	3 ft	-0.060 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

TOTAL SYSTEM GAIN/LOSS: -0.46 dBd

CALCULATED TRANSMITTER POWER OUTPUT: 0.278 kW

$(1 / [10^{(dB/10)/ERP}])$