

TPO Calculation Summary

Main Antenna Operation

Call letters: W268CB
 City of License: Melbourne, FL
 Frequency: CH268D - 101.5 MHz
 File No: BPFT-20160915ABL
 Facility ID: 145230
 Applicant: National Christian Network, Inc.

Operating Effective Radiated Power (ERP): 0.010 kW

Antenna Make: Nicom

Antenna Model: BKG-77/2DA (0.9 wavelength)

No of Elements: One (1)

Antenna COR AGL: 140 meters AGL

Antenna COR AMSL: 147 meters AMSL

Log[power gain]*10 = Antenna Gain: -0.10 dB

Calculated Antenna Input Power: 0.010 kW

System Loss Info:

<u>Description</u>	<u>Component Make/Model</u>	<u>Length</u>	<u>Loss</u>
Main Antenna Feedline (Tower)	Andrew LDF4-50A (1/2 Inch Foam) (0.666 dB/100 ft)	460 ft	-3.064 dB
Main Antenna Feedline (Ground)	Andrew LDF4-50A (1/2 Inch Foam) (0.666 dB/100 ft)	25 ft	-0.167 dB
Antenna Side Jumper	RG-8 (1/2 Inch Foam) (2.00 dB/100 ft)	3 ft	-0.060 dB
Band-Pass/Band-Reject Filter	Jampro Model RCCS-102-0.8H Starpoint		-1.200 dB
EIA Flanged Connector	Generic (3@0.02 dB each)		-0.060 dB
EIA 7/8 inch Flanged Elbow	Generic (2@0.02 dB each)		-0.040 dB
Type N Elbow	Generic (2@0.02 dB each)		-0.040 dB
7/8 inch to Type N Reducer	Generic (1@0.02 dB each)		-0.020 dB

TOTAL SYSTEM GAIN/LOSS: -4.750 dB

1 / [[10^(dB/10)/ERP]] = CALCULATED TRANSMITTER POWER OUTPUT: 0.030 kW

Munn-Reese

Broadcast Engineering Consultants
Coldwater, MI 49036