

TOTAL POWER OUTPUT CALCULATIONS		
ITEM	DESCRIPTION/LENGTHS	GAIN/LOSS
Call Letters	WOVU-LP	
Freq.	95.9	
Date	7/19/2018	
Antenna Make/Model/Bays	ERI 100A-1M	
Antenna <b>Gain</b> dB (loss negative)		-3.768
Antenna Pwr Gain (multiplier)		0.42
Transmission Line Descrip	1/2" heliax - in two pieces	
Loss per 100ft	0.661	
Length (f)	134	
Line <b>Loss</b> dB (loss positive)		0.886
Other <b>loss</b> 1 - description/dB	7.5ft 1/2" Heliax at antenna	0.050
Other <b>loss</b> 2 - description/dB	6 pairs N or DIN connectors	0.300
Other <b>loss</b> 3 - description/dB	lighning arrestor	0.500
Other <b>loss</b> 4 - description/dB	6 foot F4A-PNMNF-6 pigtail	0.040
<b>TOTAL SYSTEM GAIN dB (loss negative)</b>		<b>-5.544</b>
System ERP (W)		90.0
<b>TRANSMITTER TPO (W)</b>		<b>322.6</b>
105% Max. TPO (W)		338.69
90% Min. TPO (W)		306.44