

K288HG - Boise, ID
 FacID #202263, 105.5 MHz
 Transmission System Gain-Structure Computations

Licensed ERP: **.099kW**

<u>System Component</u>		<u>Length</u>	<u>Loss/100'</u>	<u>Gain/Loss</u>	<u>Units</u>	<u>Notes</u>
Antenna (PSI FML-1A-HR-DA)	PG = 1.53			1.84	dB	spec
AVA5-50		140	-0.368	-0.515	dB	spec
LDF4-50A		30	-0.688	-0.206	dB	spec
Jumpers 1/2" Superflex - 3 at 3' each		9	-1.081	-0.0973	dB	spec
Kintronic Labs Combiner (FMC2X300W4C)				-1.84	dB	measured
Total Transmission Line Loss				-2.66	dB	
Transmission Line Efficiency	Efficiency = 100*(antilog(loss/10))			54.2	%	
Total system gain				-0.8189	dB	
Required TPO to achieve proposed ERP	TPO = .099kW/(antilog(-.819/10))			120	W	