

# TOTAL POWER OUTPUT CALCULATIONS

ITEM	DESCRIPTION/LENGTHS	GAIN/LOSS
Call Letters	KVRF, Sutton, AK	
Freq.	89.5MHz	
Date	8/14/2019	
Antenna Make/Model/Bays	Bext TFC2k - 2 bays	
Antenna <b>Gain</b> dB (loss negative)		0.0000
Antenna Pwr Gain (multiplier)		1.000
Transmission Line Descrip	Comscope LDF4-50a	
Loss per 100ft (loss negative)	-0.624	
Length (f)	60	
Line <b>Loss</b> dB		-0.374
Other <b>loss</b> 1 - description/dB	2 DIN connectors at 0.015db each	-0.030
Other <b>loss</b> 2 - description/dB		0.000
Other <b>loss</b> 3 - description/dB		0.000
Other <b>loss</b> 4 - description/dB		0.000
<b>TOTAL SYSTEM GAIN</b> dB (loss negative)		<b>-0.404</b>
System ERP (W)		360.0
<b>TRANSMITTER TPO (W)</b>		<b>395.13</b>
105% Max. TPO (W)		414.89
90% Min. TPO (W)		355.62
<b>ANTENNA INPUT POWER (W)</b>		<b>360.00</b>

GAIN_LOSS WITHOUT ANTENNA -0.404
-------------------------------------

ANTENNA INPUT POWER DIVISOR 0.91
-------------------------------------

0.05 sqrt(freq.,GHz) db DIN loss  
typical Din loss at FM: 0.015

v4.0

(enter only in white and light-yellow areas)

TPO DIVISOR 0.91
---------------------