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calcsRF

RF/Microwave Calculators

RF System Analysis
RF analysis of cascaded components

Coupler Loss
Loss in thru path of coupler

NF to NT
Noise figure to noise temperature

dBm to Volts Peak
dBm to volts peak in 50 ohms

dBm to Volts RMS
dBm to volts rms in 50 ohms

Path Loss
Free space path loss

Temperature Conversion
Kelvin to Celcius and Fahrenheit

dBm to Watts
Convert dBm to watts

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RF Summary: 25.0°C *dB/m*

Gain	*NF*	*oP1dBm*	*Amps*
55.0	**2.2**	**14.9**	**200.0 mA**

dBm In	*dBm Out*	*iNoise*
-85.0	**-30.0**	**-91.7**

RF System	Gain	NF	oP1dB	*dB/m*
Q1	*Amplifer* **12.0**	**2.0**	**15.0**	
Q2	*Amplifer* **15.0**	**3.0**	**15.0**	
Q3	*Matching* **-2.0**	**2.0**	**∞**	
Q4	*Amplifer* **15.0**	**2.5**	**15.0**	
Q5	*Amplifer* **15.0**	**2.5**	**15.0**	

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Done

RF Summary: **70.0°C** *dB/m*

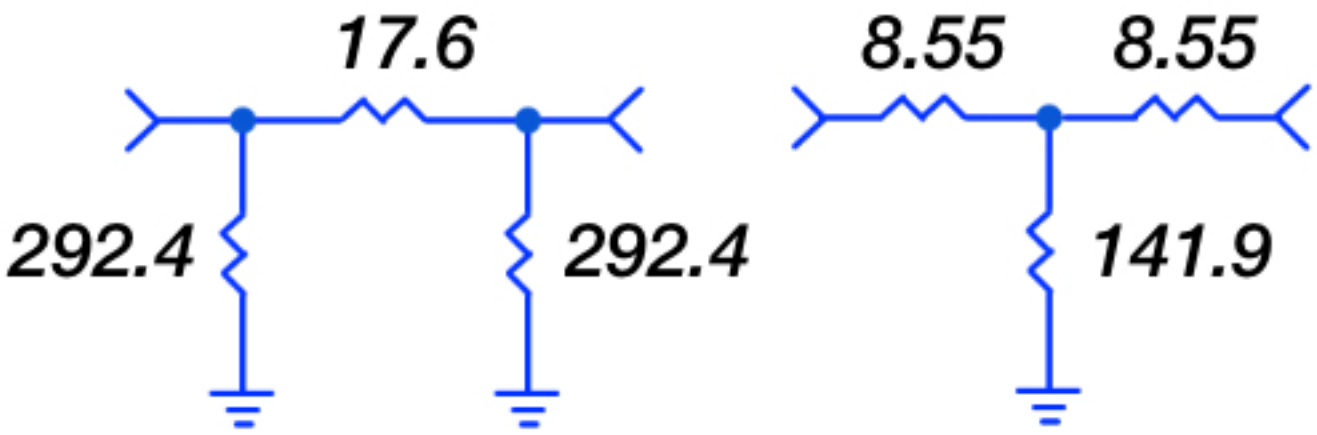
Gain	*NF*	*oP1dBm*	*Amps*
52.3	**2.9**	**14.2**	**205.4 mA**

dBm In **-87.0** — *dBm Out* **-34.7** — *iNoise* **-91.0**

RF System	Gain	NF	oP1dB	*dB/m*
Q1	*Amplifer* 11.3	2.7	14.3	
Q2	*Amplifer* 14.3	3.7	14.3	
Q3	*Matching* -2.0	2.0	∞	
Q4	*Amplifer* 14.3	3.2	14.3	
Q5	*Amplifer* 14.3	3.2	14.3	

Attenuators

Attenuation: -3.0 dB



-3dB +3dB

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dBm to Watts

dBm	*Watts*
30.0	1.00 Watts

-3dB

+3dB