$$A$$
 attenuation of the RF power in dB G gain $G = 10^{\frac{A}{20}}$ $Z_{\rm in}$ desired input impedance $Z_{\rm out}$ desired output impedance
$$R_1 = \frac{1}{\frac{G+1}{Z_{\rm in} \cdot (G-1)} - \frac{1}{R_2}}$$
 $R_2 = \frac{G-1}{2} \cdot \sqrt{\frac{Z_{\rm in} \cdot Z_{\rm out}}{G}}$ $R_3 = \frac{1}{\frac{G+1}{Z_{\rm out}} \cdot \frac{1}{Z_{\rm out}}}$