$$Z_{//} = R_{pr} \ // \ C_{pr} <=> Z_{//} = \frac{R_{pr}}{1 + jwR_{pr}C_{pr}}$$

$$V_2 = V_1 * \frac{Z_{//}}{R_1 + Z_{//}}$$

$$\boldsymbol{H} = \frac{Rpr}{R1 + Rpr} * \frac{1}{1 + jw\left(\frac{R1 * Rpr * Cpr}{R1 + Rpr}\right)}$$

$$\boldsymbol{A} = \frac{Rpr}{R1 + Rpr} * \frac{1}{\sqrt{1 + \left(w * \frac{R1 * Rpr * Cpr}{R1 + Rpr}\right)^2}}$$

$$\boldsymbol{Arg}(\boldsymbol{H}) = -\arctan\left(w * \frac{R1 * Rpr * Cpr}{R1 + Rpr}\right)$$

$$A = \frac{Rpr}{R1 + Rpr} * \frac{1}{\sqrt{1 + (\tan(\arg(H)))^2}}$$

$$(R1 + Rpr)\left(A * \sqrt{1 + (\tan(\arg(H)))^2}\right) = Rpr$$

$$R1 * A * \sqrt{1 + (\tan(\arg(H)))^2} = Rpr(1 - A * \sqrt{1 + (\tan(\arg(H)))^2})$$

$$\boldsymbol{Rpr} = \frac{R1 * A * \sqrt{1 + (\tan(\arg(H)))^2}}{1 - A * \sqrt{1 + (\tan(\arg(H)))^2}}$$

$$\tan(arg(H)) = -w * \frac{R1 * Rpr * Cpr}{R1 + Rpr}$$

$$\boldsymbol{Cpr} = -\frac{\tan(\arg(\mathrm{H})) * (R1 + Rpr)}{w * R1 * Rpr}$$