

Normal incidence. Parameters: reflection coefficient, wavelength λ , refractive index.
See for global definition. The finesse $\pi g/2$ is $\lambda/\Delta\lambda$. All length in mm.

$$\Delta = 2\pi/\lambda \quad 2D (n_2) \cos \theta_2 \quad D := 0, .001 \dots .11 \quad n_2 := 1$$

$$g1 := \frac{2 \cdot r1}{1 - r1^2}$$

$$g2 := \frac{2 \cdot r2}{1 - r2^2}$$

$$IT1(D) := \frac{1}{1 + g1^2 \cdot \sin^2\left(2 \cdot \frac{\pi}{\lambda} \cdot D \cdot n2\right)^2}$$

$$T2(D) := \frac{1}{1 + g2^2 \cdot \sin^2\left(2 \cdot \frac{\pi}{\lambda} \cdot D \cdot n2\right)^2}$$

$$g3 := \frac{2 \cdot r3}{1 - r3^2}$$

$$IT3(D) := \frac{1}{1 + g3^2 \cdot \sin^2\left(2 \cdot \frac{\pi}{\lambda} \cdot D \cdot n2\right)^2}$$

$$r1 \equiv .7 \quad r2 \equiv .9 \quad r3 \equiv .97 \quad \lambda \equiv .1$$



