```
Solve[Quantity[78.3, "kOhm"] == 50 000/fo - Quantity[5, "kOhm"], fo]
```

Solve::ratnz : Solve was unable to solve the system with inexact coefficients. The answer was obtained by solving a corresponding exact system and numericizing the result. ≫

```
{{fo → 0.60024/Ω}}
```

```
Io = Quantity[4, "A"];
Vo = Quantity[5, "V"];
Vin = Quantity[12, "V"];
f = Quantity[600, "kHz"];
deltaVin = Quantity[0.05, "V"];
N[Solve[deltaVin == Io/(f * Cin) * (1 - Vo/Vin) * Vo/Vin, Cin]]
```

Solve::ratnz : Solve was unable to solve the system with inexact coefficients. The answer was obtained by solving a corresponding exact system and numericizing the result. ≫

```
{{Cin → 0.0000324074 F}}
```

```
UnitConvert[0.0000324074` F, "uF"]
```

```
32.4074 μF
```

```
L = Quantity[22, "uH"];
deltaIL = Vo/(f * L) * (1 - Vo/Vin)
(*ESRCo =Quantity[52.5+10,"kOhm"]*)
deltaVo = Quantity[5, "mV"];
N[Solve[deltaVo == deltaIL * (1/(8 * f * Co)), Co]]
```

$$\frac{7}{31\,680}\ \mathrm{V/(kHz\,\mu H)}$$

$$\{\{\mathrm{Co} \to 9.20665 \times 10^{-6}\ \mathrm{F}\}\}$$

```
fc = Quantity
```