In[11]:=
```
Ls = Z0^2 * Cs; Gs = Rs * Cs / Ls; td = x * Sqrt[Ls * Cs];
                                     Quadratwurzel

gam = Sqrt[(Rs + p * Ls) * (Gs + p * Cs)];
      Quadratwurzel

Tp = (Z2 * Cosh[gam * (l - x)] + Z0 * Sinh[gam * (l - x)]) /
           Kosinus Hyperbolicus      Sinus Hyperbolicus

     ((Z1 + Z2) * Cosh[gam * l] + (Z0 + Z1 * Z2 / Z0) * Sinh[gam * l]) // TrigToExp // Simplify;
                  Kosinus Hyperbolicus                  Sinus Hyperbolicus   konvertiere tri···  vereinfache

lap = FullSimplify[1 / p * Tp, Assumptions → {Z0 > 0, tr > 0, (Rs + p * Cs * Z0^2) > 0}] /. {Z1 → Z0};
      vereinfache vollständig   Annahmen

InverseLaplaceTransform[lap, p, t]
inverse Laplace-Transformation

ua[t_] := InverseLaplaceTransform[lap, p, t]
          inverse Laplace-Transformation
```

Out[15]=
$$0.00324698\left(50.3292\,\text{HeavisideTheta}\left[-7.57874\times10^{-7}+t\right]+152.982\,\text{HeavisideTheta}\left[-2.52625\times10^{-7}+t\right]\right)$$

In[17]:=
```
Z0 = 50; Z2 = 100; Cs = 101.049872*^-12; Rs = 6.56167979*^-3; l = 100; x = 50; tr = 1*^-7;
```

In[18]:=
```
Plot[ua[t], {t, 0, 5 * td}, GridLines → Automatic]
stelle Funktion graphisch dar   Gitternetzlinien  automatisch
```

Out[18]=