$f_{sht}(t) = L^{-1}[\frac{F(s)}{s \cdot 1.25399 \cdot \tau}]$ is the function for parallel white and shot noise.

$$f_{sht}(t/\tau) = L^{-1}[\frac{\tau \cdot F(s \cdot \tau)}{(s \cdot \tau) 1.25399 \cdot \tau}] = \frac{1}{\tau} L^{-1}[\frac{F(s \cdot \tau)}{s \cdot 1.25399}]$$