$$\alpha(t) = \int \left( \frac{1}{4} - |t| \right) \eta - T_1 \leq t \leq T_1$$

$$0 \qquad \eta - T_1 \leq t \leq T_1$$

Now,  

$$x(t) = \begin{cases} \frac{1}{4} - t & 0 < t \leq 1/4 \\ \frac{1}{4} + t & -1/4 \leq t < 0 \end{cases}$$
 $t = (-1/4) + (-1/2) + (-1/$ 

$$a_{0} = \int_{0}^{T/4} \left( \frac{1}{4} - t \right) dt + \int_{0}^{T/4} \left( \frac{1}{4} + t \right) dt$$

$$= \int_{0}^{T/4} \left( \frac{1}{4} - t^{2} \right)^{T/4} + \left( \frac{1}{4} + t^{2} \right)^{T/4} = \frac{1}{8} - \left( \frac{1}{32} + \frac{1}{32} \right) = \frac{1}{8} - \frac{1}{16}$$

$$= \frac{1}{12} \cdot \left( 2 - T - 1 \right)$$

$$a_{K} = \frac{1}{1} \int_{-T/4}^{0} (\frac{1}{4} + b) e^{-jw_{0}t} dt + \int_{0}^{1} (\frac{1}{4} - t) e^{-jw_{0}t}$$

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