An entire function f is said to belong to the Paley-Wiener space P_{τ} if it is of exponential type τ and is square integrable on the real axis. We shall present sharp upper bounds for

$$Q(y; f) := \left(\int_{-\infty}^{\infty} \left|f'(x + \mathrm{i}y) + \mathrm{i}\tau f(x + \mathrm{i}y)\right|^2 \,\mathrm{d}x\right) / \int_{-\infty}^{\infty} |f(x)|^2 \,\mathrm{d}x$$

for any given y, as f varies in the class P_{τ} . We also find the precise estimate for Q(y; f) in the case where f(x) is real on the real axis.