

Necessary Bandwidth Description (Pulsed Radar)

$T = 600 \text{ ns}$, and $T_r = T_f = 60 \text{ ns}$

$$T / \min(T_r, T_f) = 10 < 12.6 \quad \longrightarrow \quad B (20\text{dB}) = 1.79/\sqrt{T \cdot \min(T_r, T_f)} = 9.4 \text{ MHz}$$
$$B (3\text{dB}) \sim 1/T = 1.5 \text{ MHz}$$