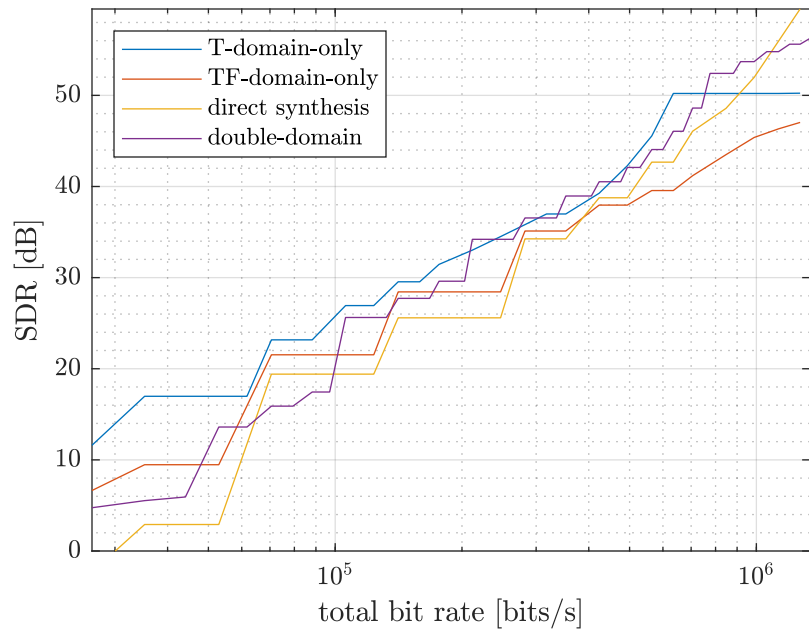SDR on the whole signal