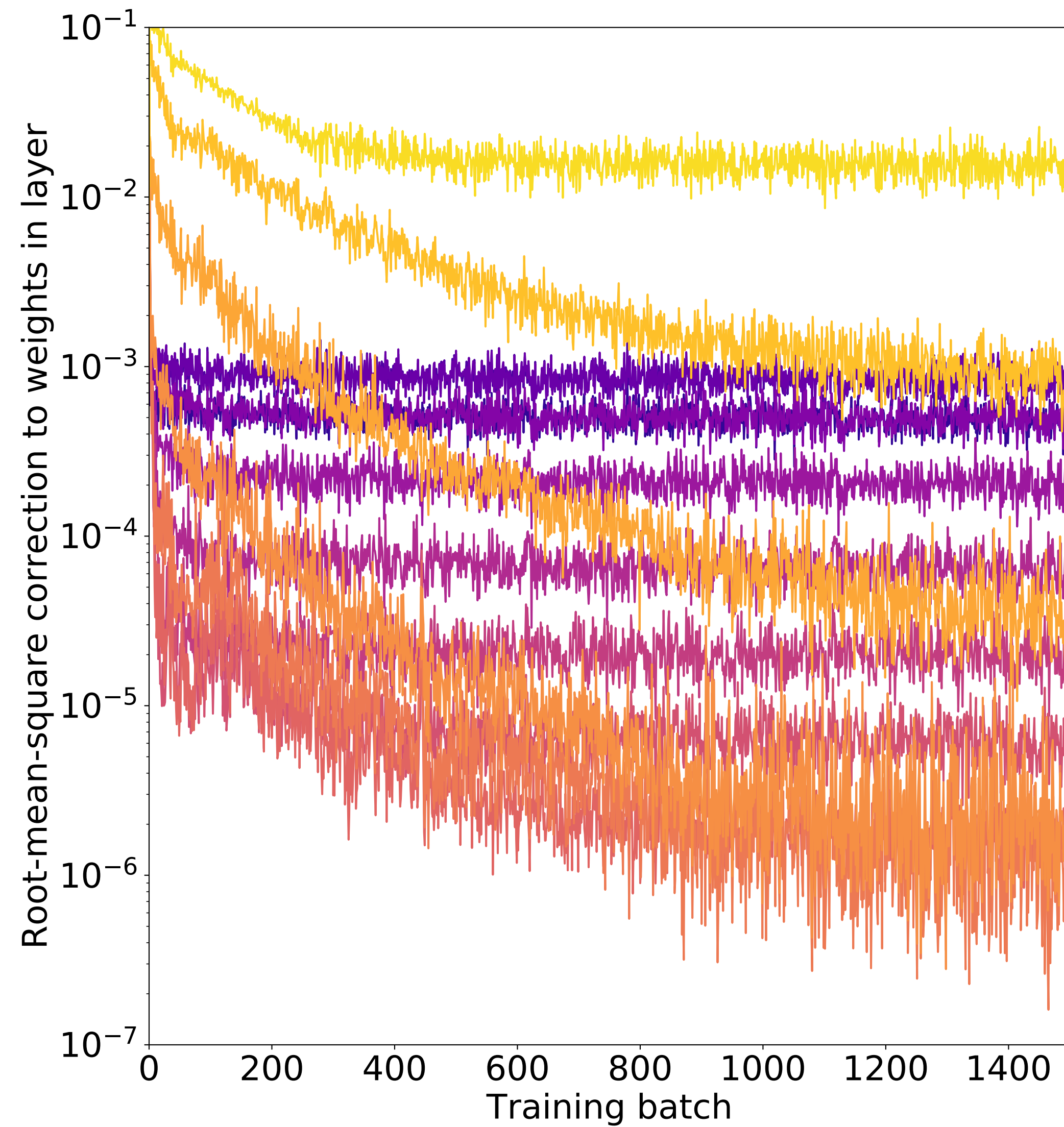Effect of layer-skipping connections on training of weights between layers