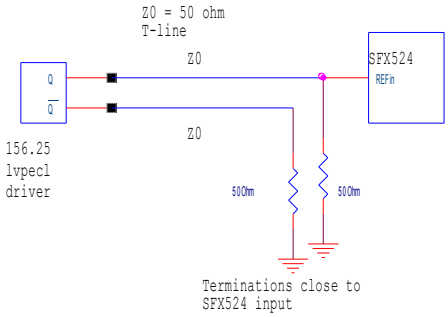
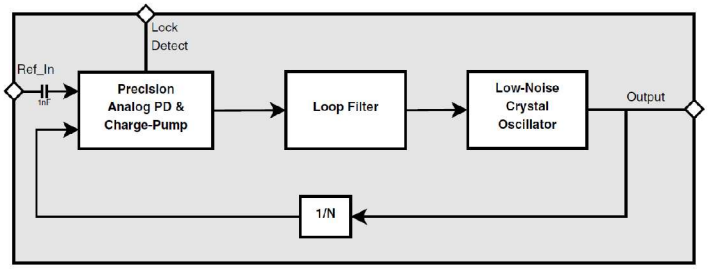
To: Dan Edmunds
CC: Bruce Bell. Ken Olp
From: Ed Miguel

Subject: Recommended differential LVPECL termination for REFin of SFX524
Date: June 27, 2013



SFX524 LVPECL Input termination scheme



SFX 524 Block Diagram

Hi Dan,

Please note the topology for the LVPECL input termination scheme to the SFX524 above. As long as the LVPECL amplitude is typical (about 0.6Vpp or more) and the slew rate or rise and fall times are less than 1ns, this will be acceptable. Typical LVPECL slew rates are in the .2 to .5 ns range.

I made the assumption that the driver is located some distance away from the input and therefore required a 50 ohm transmission line. If this is true please make sure that the ground plane under the 50 ohm traces is continuous without any gaps as the return currents will be directly beneath the traces. If the driver is very close to the input then the trace impedance and termination values are less important. You can go up to 150 ohms if the trace is very short.

Thanks,
Ed Miguel
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