

## TOM SMITH

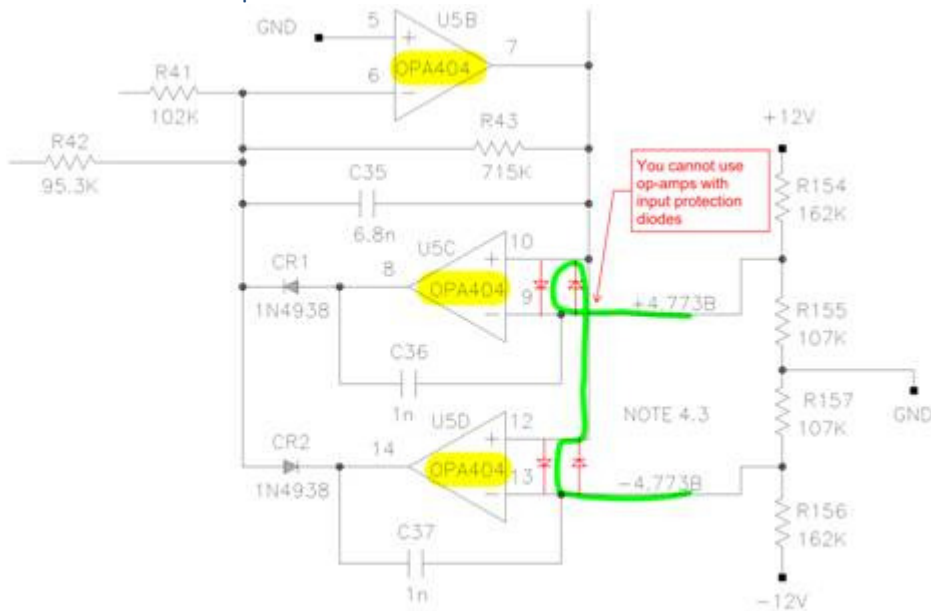
**To:** Duvall, Michael (ES)

**Subject:** RE: TL16C550 Question

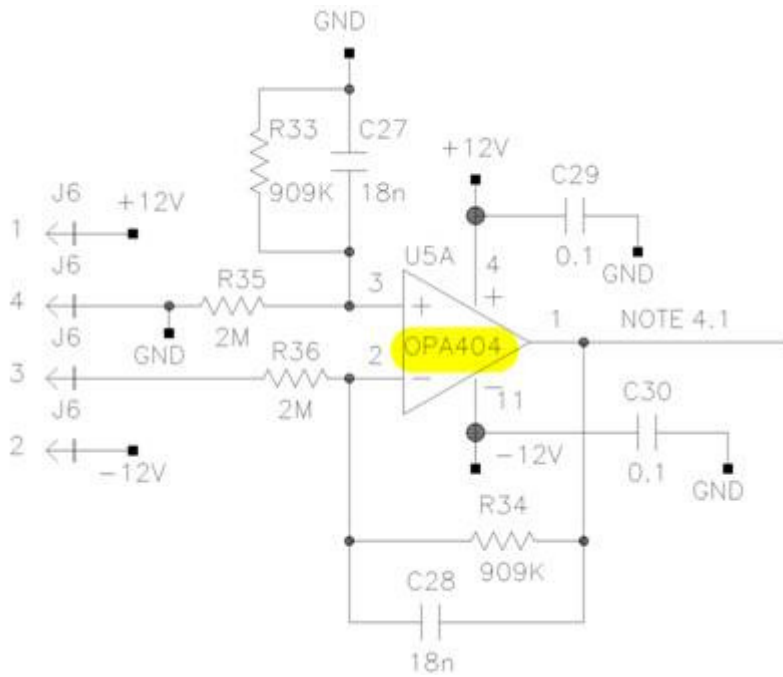
Hi Tom..

Here are the characteristics of the op amp I need.

1. The op-amp must accept a large differential input voltage so it cannot have back to back protection diodes across the input.



2. The op-amp circuit is designed to present a relatively high load impedance to the source. As a result the bias and offset currents should be pretty low I would think 1nA bi would be good.



3. A bandwidth in the 2-10 MHz is probably a good range. This signals are in the KHz at most with most of the energy in the 10-20 Hz range. Gains are low in the applications I have looked at. The above circuit is typical.
4. Industrial temperature are fine -40 to +85. Higher is acceptable and we could list that as an optional part.
5. As with the other op-amp ( OPA4140AID ) the real tough issue is it must deliver time in the 6-8 week range and the part should have a life in the 4-8 year range.