**Current Feeback Circuit Noise Problem**

Sensitron Semiconductor, Paul Moore, Technical support request.

This is the circuit 🡪



With I\_LOAD = 0.77 Amp, the VI\_FEEDBACK signal has the correct average level of 34k\*2m\*0.77/215 = 244mV, but contains 100mVpp, unexplained, 25kHz/random noise riding on it.

The scope shot below shows this 🡪



If the OPA2330AID is replaced with Microchip MCP6232-E/SN, the noise is reduced by 10x.

The scope shot below shows the OPA2330 and MCP6232 performance with 2Amps 🡪

 OPA2330

MCP6232

Please explain why the OPA2330 does not work in this circuit and what modifications could be done to continue using the OPA2330.