

Errata: CS61881 Revision A(Reference CS61881 Octal E1 Analog Front End Data Sheet (DS451PP3 APR'00))

This document lists the errata for Revision A of the CS61881.

1. Pulse amplitude too small at low temperature.

- The pulse amplitude fails the G.703 template at -40°C . The cause of the problem is known and this problem will be corrected on the next revision of the device.

2. Overshoot on transmit pulse.

- There is a 10% overshoot on the transmit pulse, which causes the pulse to fail the template at high temperatures. The output can be made to pass the G.703 template by adding a 270pF capacitor from TTIP to TRING, between the device outputs and the transformer.

3. Transmitter Return Loss low for 120 ohm lines.

- Transmitter return loss is less than the data sheet specification of 17dB when the load is 120 Ω . The return loss is within the specified limits for 75 Ω lines. This problem is under investigation.

4. Some channels have glitches on RPOS and RNEG.

- This problem is caused by crosstalk from the adjacent transmitter. The solution is under investigation.

5. Overall power is higher than data sheet specification.

- Power consumption is 122mW per channel for a 75 Ω load, versus a specification of 112mW. This problem is under investigation.

6. Pulse shape does not meet specifications at low voltage.

When the device is set up for a 120 Ω load and $\text{TV}^+ \leq 3.2\text{V}$, the transmit pulse does not comply with G.703. The amplitude of the transmit pulse is below the template, and the pulse width is wider than the template. This problem is under investigation.

The device revision is the letter before the 4 digit assembly date code in the second line of the package marking.

Inquiries regarding this errata notice may be directed to your local sales office, representative, or distributor. A listing of these offices may be found at <http://www.cirrus.com>
