* The Tx+/Tx- and Rx+/Rx- traces should always be as short as possible (less than 25 mm or 1"). If longer traces are absolutely required, the maximum length is limited to 75 mm (3"). The individual trace impedance of Tx+/Tx- and Rx+/Rx- must be kept below 50 ohms, and the differential characteristic impedance of the pair must be 100 ohms.
* Route each Tx+/Tx- and Rx+/Rx- pair together, keeping their separation under 0.25 mm (0.01"), using 0.25 mm (0.01") traces. Keep the Tx+/Tx- and Rx+/Rx- trace lengths as equal as possible.
* The separation between the Tx+/Tx- and the Rx+/Rx- differential pairs must be at least 0.5 mm (0.02"). It is best to separate them with a ground plane.
* Avoid any off-board wire assemblies. If wire assemblies are needed, use a twisted pair to connect Tx+/Tx- and Rx+/Rx-, and keep their length as short as possible., no more than 75 mm (3").
* Never use right-angle traces — use 45° angles or curves in traces.
* Trace widths should not vary.