Manufacturing constraints on the Microstim

- 1. The environment in which the Microstim is used is unfriendly and the unit is regularly dropped onto stone floors.
- 2. The unit should be "waterp resistant" " i.e able to be wiped clean
- 3. The unit is intended to be personally owned and carried by the Physician. So it should be
 - a. Lightweight
 - b. Size small
 - c. No flat batteries
 - d. Low cost (not hospital equipment)
- 4. Cable needs a special connector(not 2mm plugs for USA market) and terminates into standard ECG electrodes
- 5. Single handed (both left & right) use
- 6. Standard batteries available world wide
- 7. Standards to be complied with
 - a. ISO 601 2.10
 - b. ISO 60601
- 8. Components and layout
 - a. The Microstim has proved reliable for 20 years due to the component quality
 - b. The cable will be removed regularly so it requires a quality plug and socket
 - c. Use clamps on the transformer so that it is held securely and cannot break free.
 - d. Layout C4 so that it is near the PIC and VR1:- saves one component