



MDT Electronics

Mechanical Interface Issues

Mechanical model built using current endplugs (1.9mm pins)

Faraday cage and ground nuts were not included in model

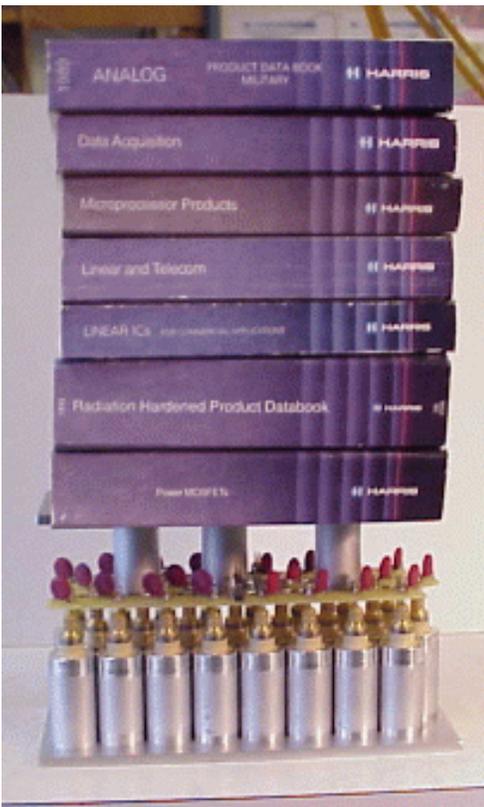
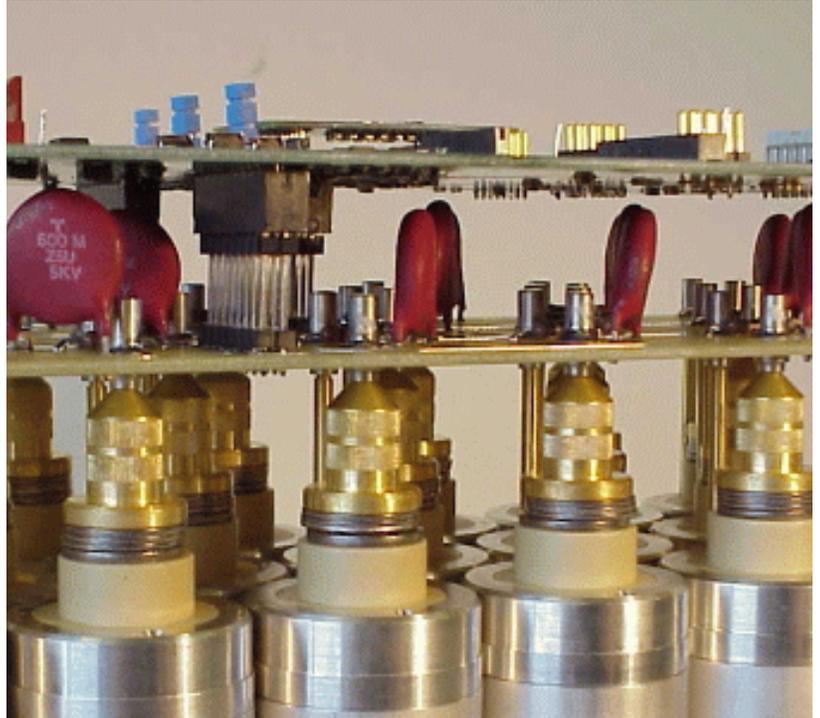
Conclusions (from PCB standpoint)

Scheme is workable

Insertion force is quite high

Misalignment of +/-500um

for ground pins is ~ok



Insertion force tested using precision methods!

Initial force:	10kg/board	200g/pin
pins partly inserted:	5kg/board	100g/pin

This could be improved significantly by tapering the pins more gradually.

Remaining concerns:

Attachment of faraday cage bottom plate

Alignment of ground pins

Forces on endplugs (axial, normal)