

Request For PKg. of 8/24/56  
Hi Volt. Components of D-100-B

High voltage power supply, ~~and~~ focus and intensity controls and associated ~~leader~~ <sup>Bleeder</sup>

networks will have to be suitably packaged. This package should be no larger

than 4 3/4" long by 3" wide by 2" high. Provision for rigid mounting to the

D-100 sub chassis should be provided. <sup>Con</sup> ~~Base~~ material should be of standard

~~drawn~~ metal construction preferably tin dipped and finished in flat black.

NOTE: See enclosed diagram and sketch.

*Components ~~they~~ should be rigidly mounted and capable*  
Terminal layout of components is not critical. However, the positioning of  
*if withstanding 10 g. in any direction without movement.*  
terminals and controls shown in the Figure should be roughly adhered to. All

<sup>necessary</sup>  
component parts for measurement and/or positioning are available in the electronics

*The pot. shafts are at 2.5KV potential & should be insulated*  
laboratory. The terminal arrangement should be such that under standard conditions

*for this condition at pressures equivalent to ~~40K~~ 40000*  
before oil filling no breakdown or corona discharges will occur. The housing

should be hermetically sealed. However, if shafts of the potentiometers should

prevent this it <sup>must</sup> ~~should~~ at least be reasonably oil tight. The whole unit will

<sup>DIAL-AX</sup>  
be filled with a Shelltype ~~dialax~~ insulating oil. This oil is also available

in the electronics laboratory. Terminals should probably be solder type

of pyrex glass or equivalent construction. They should be capable of with-

standing the operating voltage at 40000 feet without arc over or leakage of

more than 1 microampere. Since this arcover rating will probably be difficult

to achieve with readily available terminals they should at least be capable of

standing 3,000 volts DC under standing conditions. However, the leakage will



have to be kept to the 1 microampere figure at altitude. In the event that this high altitude ~~arc-over figure~~ <sup>insulation</sup> cannot be achieved, auxiliary means of insulation will have to be employed such as plastic sleeves and/or silicon components.

Terminals should be clearly marked both numerically and as to function.

~~NOTE: Make construction including G-load factors. Necessity for insulating~~

*An*

~~shafts the important~~ feature of this is that the completed item have a

professional look in appearance.

*professional appearance.*

The unit should also preferably be tagged as to function rating.