

Folly - See me on this

B. Del Mar

REQUEST FOR PACKAGING OF HIGH VOLTAGE COMPONENTS OF D-100-B

High voltage power supply, focus and intensity controls and associated bleeder 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. Can material should be of standard drawn metal construction, preferably tin dipped and finished in flat black. NOTE: See enclosed diagram and sketch.

Components should be rigidly mounted and capable of withstanding 10g. in any direction without movement. Layout of components is not critical. However, the positioning of terminals and controls shown in the figure should be roughly adhered to. All component parts necessary for measurement and/or positioning are available in the electronics laboratory. The pot. shafts are at 2.5KV potential and should be insulated for this condition at pressures equivalent to 40,000 feet. The terminal arrangement should be such that under standard conditions 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 must at least be reasonably oil tight. The whole unit will be filled with a Shell type Dial-ax 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 withstanding the operating voltage at 40,000 feet without arc over or leakage of more than 1 microampere. ~~Since this arc over rating will probably be different to~~
~~standards, the terminal arrangement should at least be such as to~~
~~standards. However, the leakage will~~
have to be kept to the 1 microampere figure at altitude. ~~In the event that this~~
~~high altitude insulation cannot be achieved, special types of insulation will~~
~~have to be employed such as mica and/or ceramic components.~~ Terminals should be clearly marked both numerically and as to function. The unit should also preferably be tagged as to function rating. An important feature of this is that the completed item have a professional appearance.