

# 83092 500 Tube Assembly

## Ruggedized 10-Stage End-Window Photomultiplier For Oil Well Logging Applications

- High Temperature Bi-alkali Cathode
- Spectral Range Extends from 300 to 660 Nanometers
- Highly Stable Copper-Beryllium Dynodes

BURLE INDUSTRIES announces the introduction of the 83092 tube assembly specifically designed to meet the harsh environmental requirements of the Geophysical Exploration Industry.

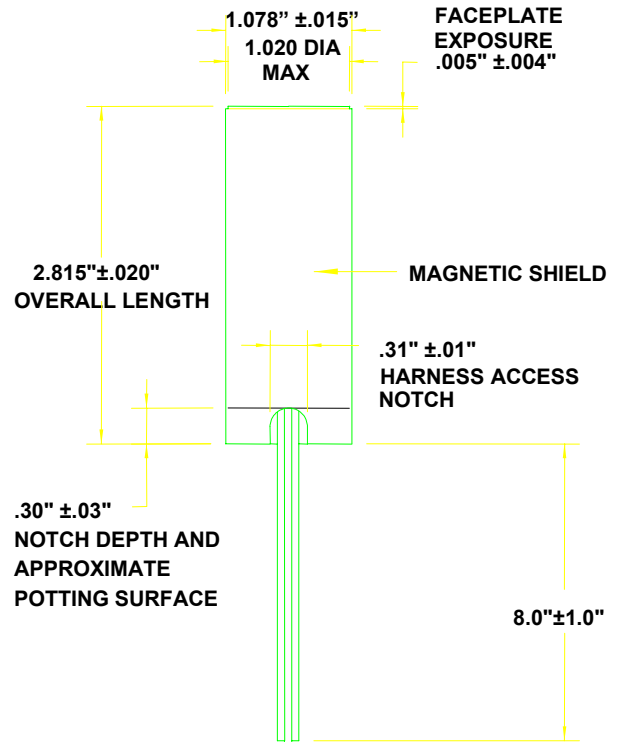
The 83092 500 assembly is a PMT assembly containing a one-inch head-on C31016H photomultiplier with attached divider and harness, potted within a magnetic shield.

### Benefits

Meets Mil-STD-810B for extreme environmental conditions.

Saves time and cost by virtue of having the voltage divider network contained within the assembly.

Good time resolution characteristics and low dark current make this assembly ideal for gross counting Geophysical Exploration applications

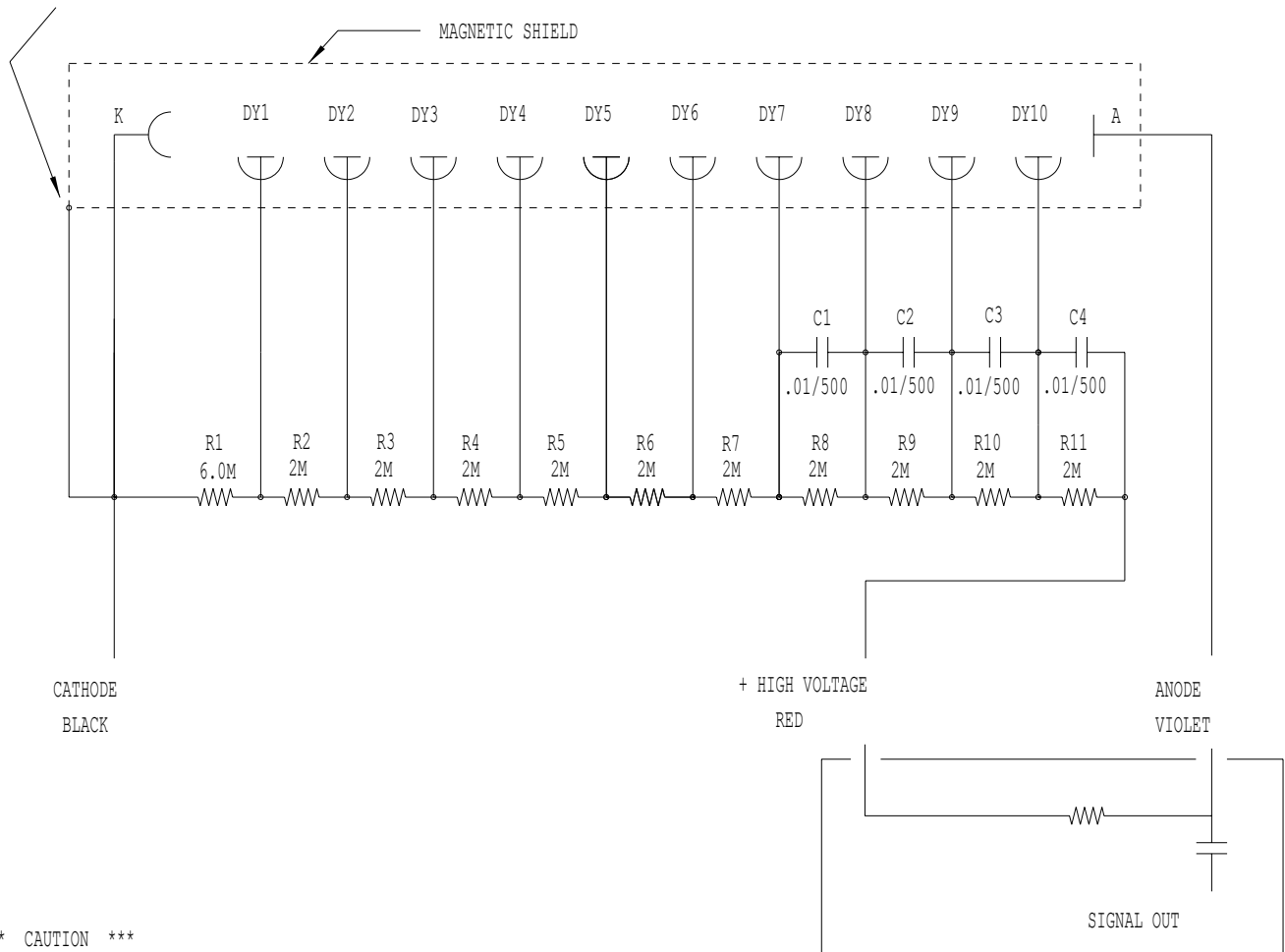


BURLE Tube Products continues a 50 year tradition of engineering and manufacturing electron tubes for a large variety of industrial, medical, communications and research applications. For further information relative to the 83092 500 assembly, please contact BURLE INDUSTRIES at 1-800-366-2875 or 1-717-295-6888.



CATHODE WIRE (BLACK) CONNECTED ELECTRICALLY TO MAGNETIC SHIELD

\*\*\* SEE CAUTION \*\*\*



\*\*\* CAUTION \*\*\*

TYPICAL OPERATION ASSUMES THE CATHODE AND MAGNETIC SHIELD, ON BLACK WIRE, ARE AT GROUND AND A POSITIVE HIGH VOLTAGE IS APPLIED TO THE RED WIRE. OPERATION IN THIS MODE REQUIRES THE CUSTOMER TO PROVIDE A DIRECT CURRENT PATH VIA A RESISTOR FROM THE ANODE TO THE POSITIVE HIGH VOLTAGE LEAD (RED) AND AN ISOLATION CAPACITOR TO COUPLE THE OUTPUT SIGNAL TO THE PREAMP. SEE THE BOXED AREA OF THE SCHEMATIC ABOVE.

OPERATION WITH THE CATHODE AND SHIELD AT NEGATIVE HIGH VOLTAGE AND RED WIRE AT GROUND WILL REQUIRE THE CUSTOMER TO PROVIDE ELECTRICAL ISOLATION OF MAGNETIC SHIELD TO PREVENT SHOCK HAZARD AND PROTECT EQUIPMENT AND TUBE FROM HIGH VOLTAGE ARC-OVER TO TOOLING OR FIXTURES. UNDER NO CIRCUMSTANCE SHOULD AN OPERATOR TOUCH THE MAGNETIC SHIELD WHEN HIGH VOLTAGE IS APPLIED.

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