

CENTRAL ELECTRONIC MANUFACTURERS  
2 RICHWOOD PLACE  
DENVER, NEW JERSEY

TECHNICAL SPECIFICATIONS FOR 7030

The Central 7030 is a forced-air cooled hard tube diode specifically designed for rectifier, charging and shunt diode service up to 30KV peak inverse voltage. The tube design features a special thoriated tungsten filament capable of high peak currents and long life. The external anode allows for high anode dissipation ratings and efficient air cooling. The 7030 can dissipate 2.5KW continuously at an air flow of 150 cfm.

SPECIFICATIONS:

PHYSICAL

|                         |              |
|-------------------------|--------------|
| Net Weight, Approximate | 6 1/4 pounds |
| Max. Input Air Temp.    | 45°C         |
| Max. Glass Seal Temp.   | 180°C        |
| Mounting Position       | Vertical     |
| Type of Cooling         | Forced Air   |

| cfm | Dissipation | Press. Drop<br>(in. of water) |
|-----|-------------|-------------------------------|
| 150 | 2.5         | 2.5                           |
| 120 | 2.0         | 1.6                           |
| 90  | 1.5         | .9                            |
| 65  | 1.0         | .65                           |
| 50  | 0.5         | .5                            |

Interelectrode Capacitance      12  $\mu\mu$  f

ELECTRICAL (RECTIFIER):

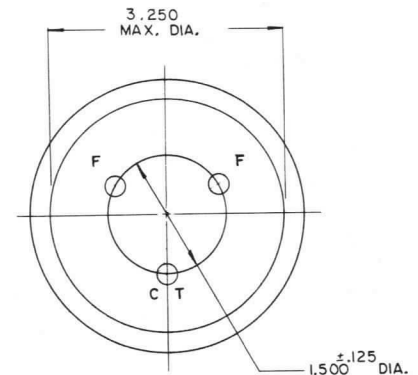
|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Filament                  | Thoriated Tungsten                                         |
| Filament Voltage          | 13 Volts                                                   |
| Filament Current          | 36 Amperes                                                 |
| Filament Starting Current | Full filament voltage may be applied to the cold filament. |
| Peak Inverse Voltage      | 25KV                                                       |
| Peak Plate Current        | 20 Amps.                                                   |
| Average Plate Current     | 6 Amps.                                                    |

ELECTRICAL (CLIPPER AND SHUNT):

|                       |                   |
|-----------------------|-------------------|
| Filament Voltage      | 13.75 volts.      |
| Filament Current      | 38 Amps.          |
| Peak Inverse Voltage  | 30KV    30KV      |
| Peak Plate Current    | 50 Amps. 75 Amps. |
| Average Plate Current | .7 Amps. 2 Amps.  |

TYPE 7030  
HIGH VACUUM POWER DIODE

COLOR CODE  
FIL. TERM. \_\_\_\_\_ YELLOW  
FIL. C. TERM. \_\_\_\_\_ RED



TUBULATION TIP-OFF TO BE  
1/8 MIN. BELOW TERMINALS

