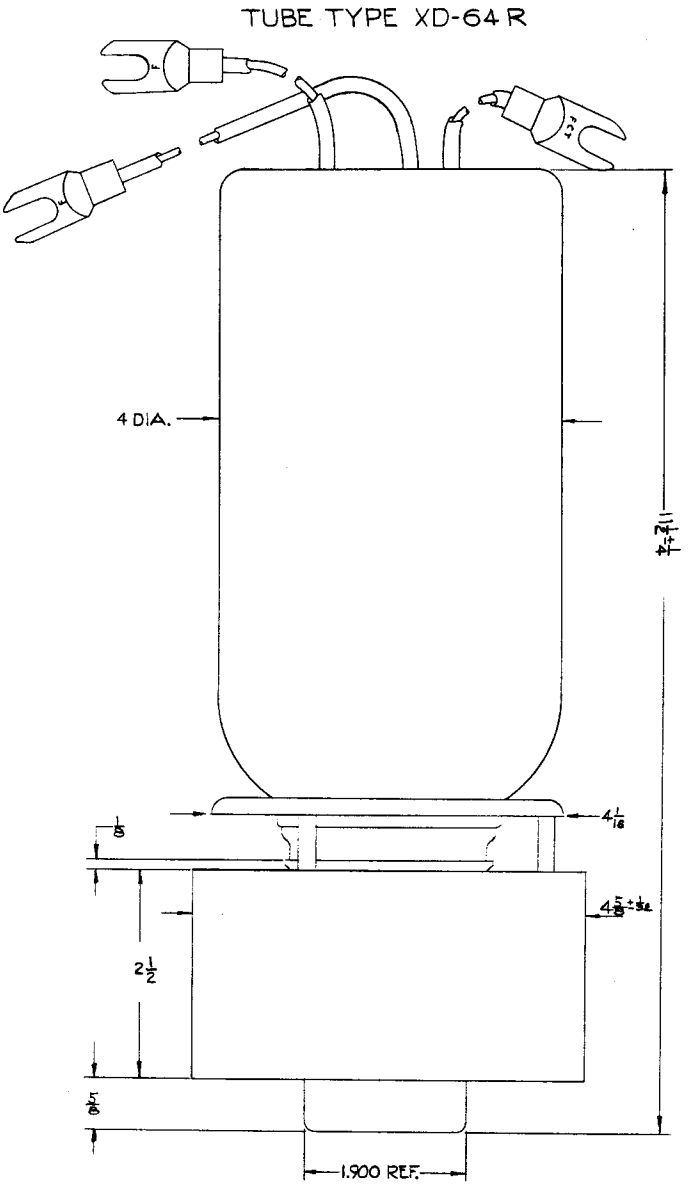
CENTRAL ELECTRONIC MANUFACTURERS
2 RICHWOOD PLACE
DENVILLE, NEW JERSEY

TECHNICAL SPECIFICATIONS FOR TYPE XD-64R HIGH VOLTAGE, HIGH VACUUM DIODE

The Nucor XD-64R is a forced-air cooled high vacuum tube diode specifically designed for rectifier, charging and shunt diode service up to 80KV 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 when used with the recommended Nucor air socket. This air socket permits maximum air flow at the anode. The XD-64R can dissipate 3KW continuously at an air flow of 190 cfm.

SPECIFICATIONS:



PHYSICAL

Overall Length (max)	11 3/4 in.
Overall Diameter (max)	4 21/32 in.
Weight (approx)	8 1/2 lbs.
Mounting Position	Vertical
Mounting Socket	
Type of Cooling	Forced Air

Air Flow

Velocity (cfm)	Anode Dissipation	Pressure Drop (in. of water)
50	1.0 KW	0.20
75	1.8 KW	0.26
125	2.4 KW	0.58
190	3.0 KW	1.21

Maximum Incoming Air Temp. 45°C
Maximum Glass Seal Temp. 180°C

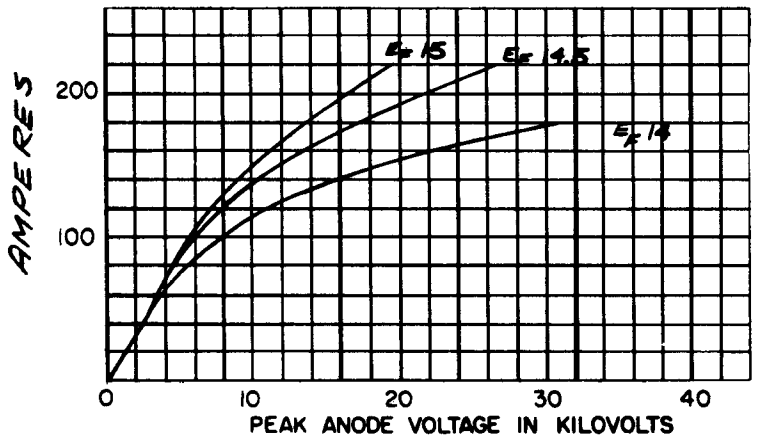
ELECTRICAL (Rectifier):

Filament Voltage	13 volts AC
Filament Current	36 amperes
Filament Surge Current (max)	80 amperes
Peak Inverse Voltage (max)	80 kilovolts
Anode Current	3 amperes
Peak Anode Current	15 amperes

CLIPPER, SHUNT OR CHARGING DIODE

Filament Voltage (clipper)	14.5 volts AC
Filament Voltage (charging)	13 volts AC
Filament Current (clipper)	40 amperes
Filament Current (charging)	30 amperes
Filament Surge Current (max)	80 amperes
Peak Inverse Voltage (max)	80 kilovolts
Anode Current (RMS)	6 amperes
Peak Anode Current (clipper)	150 amperes

PULSE CHARACTERISTICS



FILAMENT CHARACTERISTICS