Central ELECTRONIC MANUFACTURERS

DENVILLE, NEW JERSEY

PULSE TUBE

7545/XD-45

3.4 MEGAWATTS

Description

The Central tube type 7545/XD-45 is a forced-air-cooled triode specifically designed for use in pulsed service as an amplifier and modulator switch tube.

Filament-thoriated tungsten
E_f 10V
I_f 120A
Mu 30

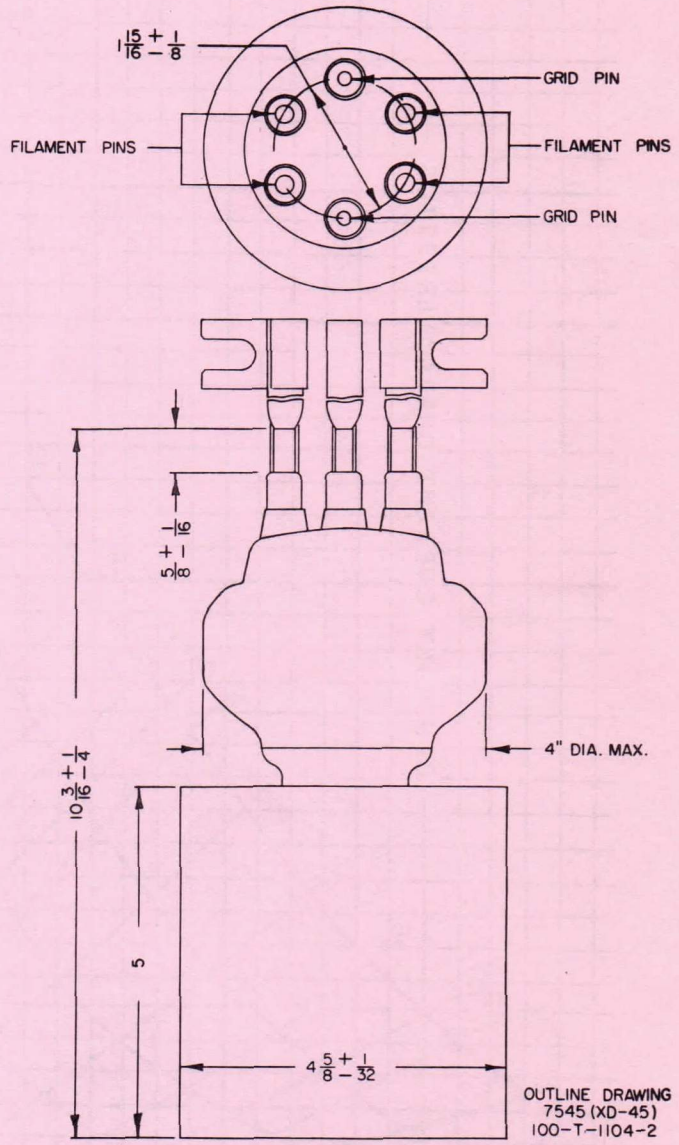
Maximum Ratings:

Plate Voltage –	25000 volts dc for pulse application
Plate Voltage –	8000 volts dc for cw application
Cathode Current –	200 peak amperes
Plate Current –	6 amperes dc
Plate Dissipation	6 Kw forced air cooled
Power Input –	48 Kw for class C Telegraphy

Typical Operation

Pulsed RF power amplifier .03 duty class B

Plate Voltage	15000 volts dc
Grid Voltage	–600 volts dc
Peak RF Grid Voltage	2560 volts
D.C. Plate Current	0.573 amperes
Driving Power	461 watts
Pulse Power Output	390 Kw
Air Flow for 6 Kw	200 cfm @ 1" water back pressure



OUTLINE DRAWING
7545 (XD-45)
100-T-1104-2

PULSED SWITCH TUBE 0.002 DUTY

E_f 10 Vdc

Plate Voltage	25000 volts dc
Peak Plate Current	130 amperes
Peak Grid Current	70 amperes
Average Plate Dissipation	6 Kw forced air cooled
Pulse Width	25 μ seconds
Peak Power Switched	2.6 Mw

E_f 10.8 Vdc

Plate Voltage	25000 volts dc
Peak Plate Current	180 amperes
Peak Grid Current	100 amperes
Average Plate Dissipation	6 Kw forced air cooled
Pulse Width	25 μ seconds
Peak Power Switched	

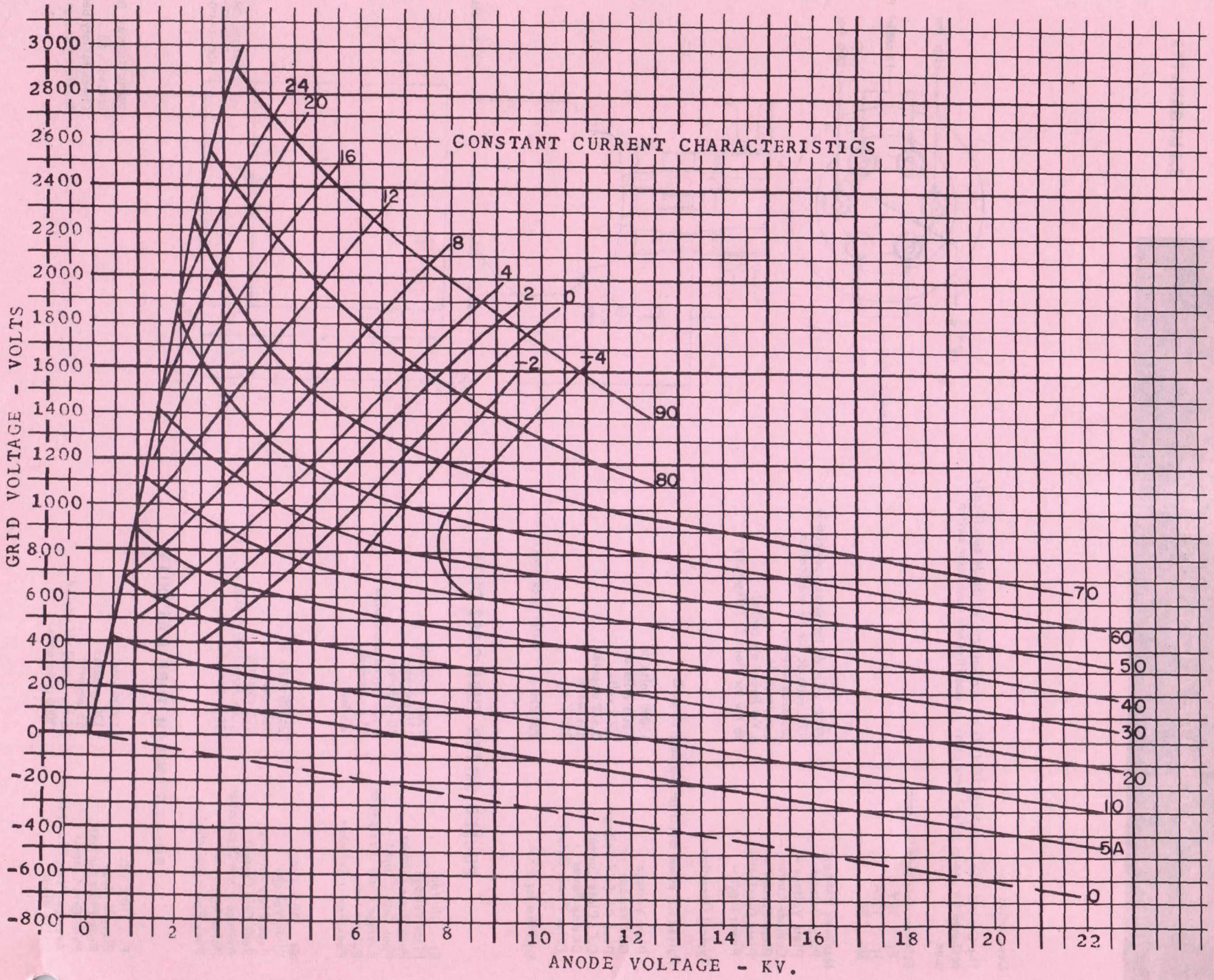
PULSED SWITCH TUBE 0.06 DUTY

E_f 10.8 Vdc

Plate Voltage	25000 Vdc
Peak Plate Current	120 amperes
Peak Grid Current	65 amperes
Average Plate Dissipation	6 Kw forced air cooled
Pulse Width	3000 μ seconds

PROVISIONAL DATA
Issued 5/60
Check factory before finalizing designs.

(Over)


CONSTANT CURRENT CHARACTERISTICS
GRID VOLTAGE - VOLTS
ANODE VOLTAGE - KV.
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-200
-400
-600
-800
0
2
6
8
10
12
14
16
18
20
22
24
20
16
12
8
4
2
0
-2
-4
90
80
70
60
50
40
30
20
10
5A
0