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

\[ E_f = 10 \text{V} \]
\[ I_f = 120 \text{A} \]
\[ M_u = 30 \]

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

PULSED SWITCH TUBE 0.002 DUTY

\[ E_f = 10 \text{Vdc} \]
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 \mu s
Peak Power Switched: 2.6 Mw

\[ E_f = 10.8 \text{Vdc} \]
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 \mu s
Peak Power Switched

PULSED SWITCH TUBE 0.06 DUTY

\[ E_f = 10.8 \text{Vdc} \]
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 \mu s

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