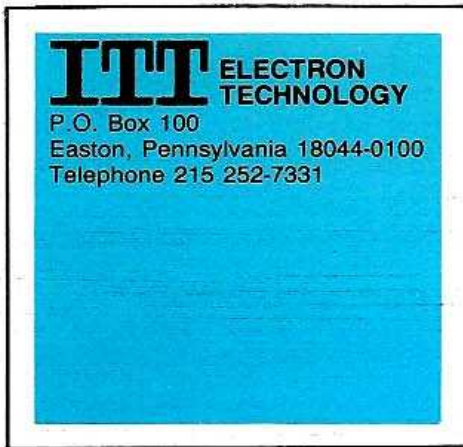




F-1232

POWER TRIODE

DESCRIPTION

The 1232 is a glass power triode designed primarily for oscillator and amplifier services at frequencies up to 30 MHz. The filament is of the thoriated-tungsten type. The tube has a forced air cooled copper anode capable of dissipating 5.4 kilowatts. Flexible ribbon leads for the grid and filament are provided.

ELECTRICAL

Filament Voltage	9.0 Volts
Current.	60 Amperes
Heating Time Minimum	15 Seconds
Filament Starting Current.	300 Amperes
Amplification Factor	22
Inter-Electrode Capacitances:	
Grid - Anode.	21 pF
Grid - Filament	28 pF
Anode - Filament	1.3 pF

MECHANICAL

Mounting Position.	Vertical, Anode up or down
Max. Bulb & Seal Temperature	160°C
Net Weight (Approx.)	6.5 pounds
Max. Incoming Air Temperature.	45°C

Radio Frequency Power Amplifier and Oscillator, Class C Telegraphy.
Key Down Conditions, per Tube Without Amplitude Modulation.

MAXIMUM PLATE:

Voltage.	7 Kilovolts
Current.	2 Amperes
Dissipation.	5.4 Kilovolts

MAXIMUM RATINGS

Absolute Maximum Values:

Based on intermittent operation. Max. Ratings apply during "on" Time.

D.C. Plate Voltage	9 Max. Kilovolts
D.C. Grid Voltage.	-1000 Max. Volts
D.C. Plate Current	2 Max. Amperes
D.C. Grid Current.	0.5 Max. Amperes
Plate Power Input.	18 Max. Kilowatts
Plate Dissipation.	5400 Max. Watts
Grid Dissipation	200 Max. Watts
On Time.	5 Max. Seconds
Duty	50 Max. %

Typical Operation:

Based on intermittent operation values listed are during "on" Time.*

D.C. Plate Voltage	9 Kilovolts
D.C. Grid Voltage.	-700 Volts
Peak RF Plate Voltage.	8.5 Kilovolts
Peak RF Grid Voltage	1000 Volts
D.C. Plate Current	1.9 Amperes
D.C. Grid Current.	0.270 Amperes
Driving Power.	260 Watts
Power Output	14 Kilowatts
RF Load Resistance	2530 Ohms

* For max. "on" Time of 5 sec. and max. duty of 50%.

Radio Frequency Power Amplifier and Oscillator, Class C Telegraphy.
Key Down Conditions, per Tube Without Amplitude Modulation. Modulation,
essentially negative, may be used if the positive peak of the audio
envelope does not exceed 115% of carrier conditions.

MAXIMUM RATINGS

Absolute Maximum Values

D.C. Plate Voltage	7 Max. Kilovolts
D.C. Grid Voltage.	-1000 Max. Volts
D.C. Plate Current	2.0 Max. Amperes
D.C. Grid Current.	0.5 Max. Amperes
Plate Power Current.	14 max. Kilowatts
Plate Dissipation.	5400 Max. Watts
Grid Dissipation	200 Max. Watts
Frequency.	30 Max. Megahertz

Typical Operation:

D.C. Plate Voltage	5.0 - 7.0 Kilovolts
D.C. Grid Voltage	-350 - -500 Volts
Peak RF Plate Voltage	4.5 - 6.5 Kilovolts
Peak RF Grid Voltage	610 - 830 Volts
D.C. Plate Current	1.4 - 1.8 Amperes
D.C. Grid Current	0.16 - 0.23 Amperes
Driving Power	100 - 190 Watts
Power Output	5.5 - 10.5 Kilowatts
RF Load Resistance	1810 - 2000 Ohms

TERMINAL ARRANGEMENTS

- 1 = GRID - BLACK
- 2 = FIL. - YELLOW
- 3 = GRID - BLACK
- 4 = C.T. - RED
- 5 = GRID - BLACK
- 6 = FIL. - YELLOW

