

## OBJECTIVE TECHNICAL INFORMATION

These ratings represent the design objective for this product. Refer to the Preliminary Technical Information sheet for ratings currently achieved in the progression towards design objectives. If PTI sheets do not exist, consult your local Tube Department Regional Sales Office.

DEVELOPMENTAL TYPE ZP -1026

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This technical information is proprietary and is furnished only as a service to customers.

**ZP-1026** 

TRIODE

Grid-Pulsed Amplifier Service Grounded-Grid Operation

Heat-Sink and Forced-Air Cooled Metal and Ceramic

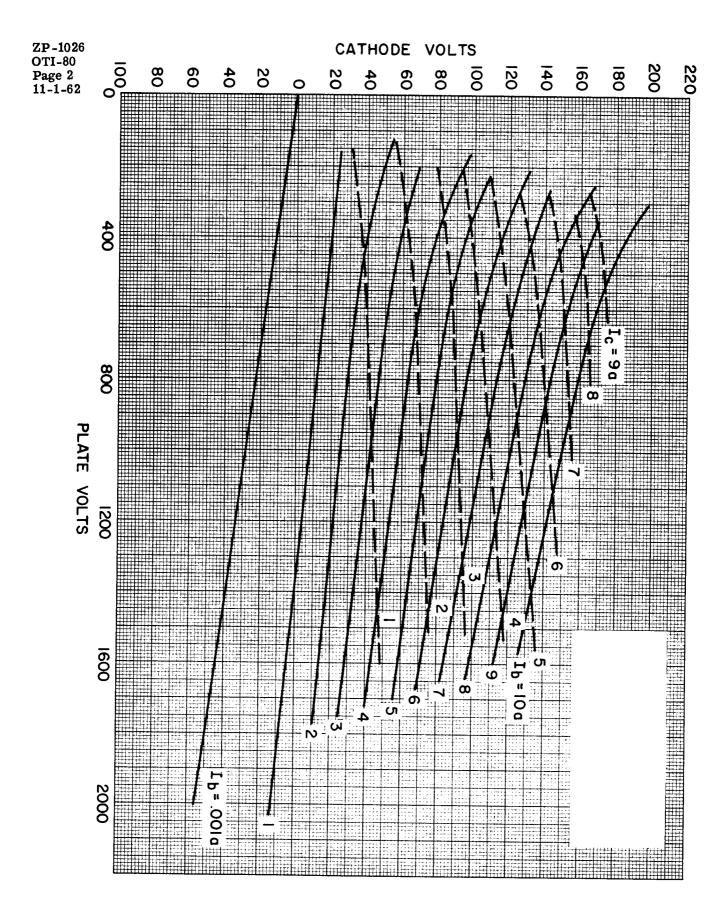
The ZP-1026 is a heat-sink-cooled triode especially designed for grid-pulsed amplifier service in L-band. This tube is particularly well suited for use in navigational aid beacons (TACAN). Features include small size, high gain, long pulse width and high duty capability, long life and reliability.

## ELECTRICAL

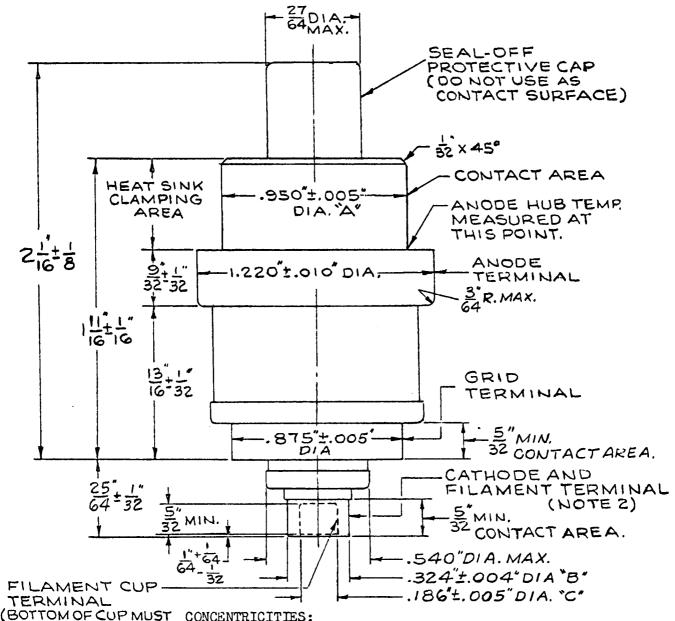
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Heater Voltage* Heater Current Cathode Heating Time, minimum Direct Interelectrode Capacitances Input Output Plate-Cathode	5.9	Volts Amperes Minute μμf μμf μμf
MECHANICAL		
Mounting Position - Any Net Weight, approximately	3 1/4	Ounces
THERMAL		
Cooling - Heat-sink and Forced-air Anode Temperature §	250 200	C C
GRID-PULSED AMPLIFIER - CLASS AB <sub>2</sub>		
Maximum Ratings  DC Plate Voltage	2.5 2.0 -200 110 10 .04	Kilovolts Amperes Volts Watts Microseconds
Typical Operation Grounded-Grid Circuit at 1215 mcs, 3/4 λ Output  DC Plate Voltage	2000 1.6 -75 0 .5 750 95 8	Volts Amperes Volts Volts Amperes Watts Watts Microseconds
	0.2	

- \* Because of back-heating due to transit time effects, it may be necessary to reduce the heater voltage.
- § A suitable heat-sink clamping arrangement must be provided to limit the anode hub temperature to the value specified.
- Maximum ratio of on-time to elapsed time during any 250 microsecond period.
- Pulse duration is measured between points at 70 percent of the peak value. The peak value is defined as the
   maximum value of a smooth curve through the average of the fluctuations over the top portion of the pulse.



Voltages Referenced to Grid



CONCENTRICITIES:

NOT BE USED AS A

SOCKET STOP.)

The following total indicator readings are measured with respect to a centerline determined by the centers of the anode terminal and control grid terminal.

> Diameter A - 0.030 inches Diameter B - 0.036 inches Diameter C - 0.042 inches

Total indicator reading of filament cup terminal diameter (C) measured with respect to center of cathode and filament terminal diameter (B) - 0.016 inches.

## TUBE DEPARTMENT GENERAL ELECTRIC

Owensboro, Kentucky