

These ratings represent those of current samples of this type. Refer to the Objective Technical Information sheet for design-objective ratings.

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

ZP-1016-B

TRIODE

High Voltage Series-Regulator Service

Metal and Ceramic

The ZP-1016-B is a metal-ceramic triode for high voltage series regulator service. Its features make this tube very desirable for use in regulation of DC voltages up to 10,000 volts. An average power handling capability of 300 watts helps fill a void in the power spectrum of tubes available for this type of service.

ELECTRICAL	Minimum	Bogey	Maximum
Heater Voltage	-	6.3	- Volts
Heater Current	-	3.8	- Amperes
Cathode Heating Time	1	-	- Minute
Direct Interelectrode Capacitances			
Output	-	6.7	- μf
Input	-	8	- μf
Plate to Cathode	-	-	.35 μf
Amplification Factor	-	10	-
Plate Current @ $E_g = 0$; $E_b = 600$ volts	-	0.300	- Ampere
Grid Voltage @ $E_b = 10,000$ volts; $I_b = 0.001$ ampere	-	1300	- Volts

MECHANICAL

Mounting Position - Any	
Net Weight, approximate	1.0 Pound

THERMAL

Cooling - Forced Air	
Anode Temperature, maximum	180 C
Seals and Tube Temperature at Any Point, maximum	200 C

HIGH VOLTAGE SERIES REGULATOR

Maximum Ratings	
DC Plate Holdoff Voltage*	10 Kilovolts
DC Grid Voltage**	-4 Kilovolts
Plate Dissipation	300 Watts
DC Plate Current	250 Milliamperes

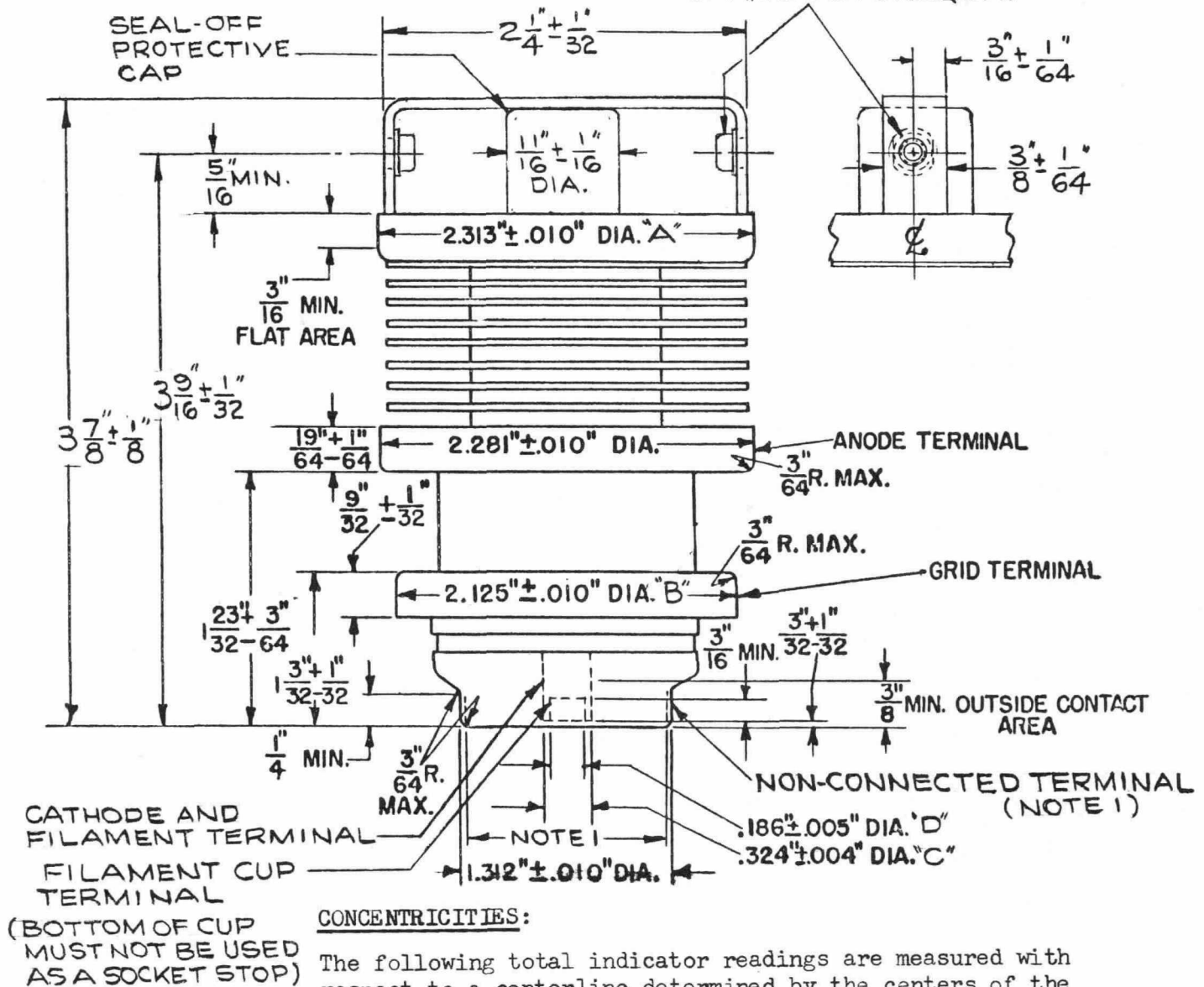
* Minimum circuit impedance in combined cathode and anode circuits equals 4000 ohms.

** Equivalent series $R_g = 0.25$ to 1.0 megohms.

NOTES

1. NON-CONNECTED TERMINAL MUST ALLOW ENTRY OF A PLUG GAGE $1\frac{3}{16}$ O.D. - $\frac{3}{8}$ I.D. FOR A DEPTH OF $\frac{7}{32}$ MINIMUM.

#6-32 NUT #12 NCFMA2-62
ELASTIC STOP-NUT CORP.
OF AMERICA OR EQUIV.



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 Power Tube Department Regional Sales Office.

DEVELOPMENTAL

TYPE

ZP-1024

OTI-76

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ZP-1024

TRIODE

Internal Feedback for Oscillator Service
Grounded-Grid Operation

Heat-Sink and Forced-Air Cooled
Metal and Ceramic

The ZP-1024 is a heat-sink-cooled triode especially designed for pulsed-oscillator service in L-band, providing useful output at frequencies up to approximately 1700 megacycles.

The tube features internal feedback which eliminates the need for the complicated external circuit arrangements normally required in oscillator service.

Other features of the ZP-1024 are long life and reliability, long pulse width and high power output capability.

ELECTRICAL

	Minimum	Bogey	Maximum	
Heater Voltage	-	6.3	-	Volts
Heater Current	-	3.8	-	Amperes
Cathode Heating Time	1	-	-	Minute
Direct Interelectrode Capacitances				
Cathode to Plate †	-	0.5	-	μmf
Input	-	20	-	μmf
Output	-	7.8	-	μmf

MECHANICAL

Mounting Position - Any		
Net Weight, approximately	9	Ounces

THERMAL

Cooling - Heat-sink and Forced-Air ‡		
Anode Temperature §, maximum	250	C
Seals		
Screen and Control Grid, approximate	1	Cubic Foot per Minute
Heater and Cathode, approximate	1	Cubic Foot per Minute
Ceramic Temperature at Any Point, maximum	200	C

PLATE-PULSED OSCILLATOR - CLASS C

Maximum Ratings

DC Plate Voltage, during pulse	6.5	Kilovolts
DC Plate Current, during pulse	6.5	Amperes
DC Grid Voltage, during pulse	-400	Volts
Plate Dissipation	150	Watts
Pulse Width◇.	1	Microsecond
Duty Factor♥ φ	.001	