

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-1043 OTI-90 Page 1 3-15-64

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ZP-1043

TRIODE

Grid-Pulsed Amplifier Service Grounded-Grid Operation

Heat-Sink and Forced-Air Cooled Metal and Ceramic

The ZP-1043 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 application. Features include small size, long pulse width and high duty capability, long life and reliability.

ELECTRICAL

8-62

Heater Current	5.0 Volts 2.4 Amperes 1 Minute 6.5 μμf 4.0 μμf 0.1 μμf
MECHANICAL	
Mounting Position – Any Net Weight, approximately	1/2 Ounces
THERMAL	
Maximum Ceramic Temperature at Any Point	250 C 200 C
GRID-PULSED AMPLIFIER - CLASS C	
DC Plate Current, during pulse DC Grid Voltage Plate Dissipation Pulse Width ¶	2.5 Kilovolts 3.0 Amperes 200 Volts 50 Watts 10 Microseconds
Typical Operation Grounded-Grid Circuit at 1150 mcs, $1/4 \lambda$ Output DC Plate Voltage	7000 Volts 1.25 Amperes 1.25 Amperes 1.25 Amperes 1.25 Amperes 1.25 Amperes 1.26 Watts 1.27 Watts 1.28 Microseconds 1.29 Microseconds

- * 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.
- ¶ For recommendations on longer pulse width and higher duty factor refer to the manufacturer.

The specifications of this type are subject to change. This device is now under development and is made available for experimental purposes only. For the most recent information concerning the status of this development, please consult your local Tube Department Regional Sales Office, or current Preliminary Technical Information for the same catalog number.

FT.137

