



ELECTRONIC TUBE REFERENCE

A0897

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-mu planar transmitting triode designed for grounded-grid microwave oscillator and amplifier service. Its low-inductance metal-ceramic construction and very low interelectrode capacitance support operation well into the microwave frequency range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.03 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0248 S
AMPLIFICATION FACTOR	95
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	125 mA
<i>Planar metal-ceramic triode. Maximums use the Class C telegraphy absolute-maximum block, the highest published applicable absolute ratings.</i>	

The A-0897 is a metal-and-ceramic, high-mu planar triode designed for grounded-grid oscillator or amplifier service at frequencies as high as 2500 megacycles.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current at Ef	6.3 V	GENERAL
Heater Voltage	4.5–6.3 V	MAXIMUM RATINGS
DC Plate Voltage	1000 V	MAXIMUM RATINGS
Negative DC Grid Voltage	150 V	MAXIMUM RATINGS
Peak Positive RF Grid Voltage	30 V	MAXIMUM RATINGS
Peak Negative RF Grid Voltage	400 V	MAXIMUM RATINGS
DC Grid Current	50 mA	MAXIMUM RATINGS
DC Cathode Current	125 mA	MAXIMUM RATINGS
Plate Dissipation#	10 W	MAXIMUM RATINGS
Grid Dissipation	2 W	MAXIMUM RATINGS
DC Plate Voltage	600 V	MAXIMUM RATINGS
DC Cathode Current	100 mA	MAXIMUM RATINGS
Plate DissipationA	7 W	MAXIMUM RATINGS
Heater current of a bogey tube at Ef	6.3 V	contact your General Electric tube sales representative
audio-frequency envelope does not exceed	115 %	contact your General Electric tube sales representative
# With an adequate heat sink the maximum dissipation rating is	100 W	contact your General Electric tube sales representative
With an adequate heat sink the maximum dissipation rating is	70 W	contact your General Electric tube sales representative

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage does not exceed	1200 V	contact your General Electric tube sales representative
o Adjusted for Ib	75 mA	contact your General Electric tube sales representative
730 CLASS	2 A	contact your General Electric tube sales representative

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate (g to p)	2.01 pF	Direct Interelectrode Capacitances
Grid to Cathode (g to k)	6.5 pF	Direct Interelectrode Capacitances
Plate to Cathode (p to k)	0.023 pF	Direct Interelectrode Capacitances
Heater Voltage	6.3 V	Average Characteristics
Plate Voltage	600 V	Average Characteristics
Transconductance	24800 uS	Average Characteristics
Plate Current	75 mA	Average Characteristics
Frequency 500	2500 MHz	Average Characteristics
Heater Voltage 6 0	5 V	Average Characteristics
DC Plate Voltage 900	900 V	Average Characteristics
DC Plate Current 90	90 mA	Average Characteristics
DC Grid Current 30	27 mA	Average Characteristics
DC Grid Voltage	40–22 V	Average Characteristics
Useful Power Output 40	17 W	Average Characteristics
Ef 6 3 volts 950 1030	1100 mA	Average Characteristics
Ef 6 3 volts Eb	600 V	Average Characteristics
Ib 75 ma -1 3	-2.5–3.5 V	Average Characteristics
Ib 1 0 ma -7 0	-9.5–15 V	Average Characteristics
Ec adjusted for Ib	75 mA	Average Characteristics
Ec adjusted for Ib 75 ma 22000 24800	27500 uS	Average Characteristics
Ec adjusted for Ib 75 ma	3 uA	Average Characteristics
Grid to Cathode at	500 V	Average Characteristics
Grid to Plate (g to p) 1 89 2 01 2	13 pF	Interelectrode Capacitances

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Cathode (g to k) 6 0 7 pF 6 5		Interelectrode Capacitances
Plate to Cathode (p to k) 0 0.029 pF 018 0 023		Interelectrode Capacitances
1000 volts Ib	90 mA	Interelectrode Capacitances
of flashover when	1000 V	Interelectrode Capacitances
is centered at some value within the range of	4.5–6.3 V	Interelectrode Capacitances

TUBE TINKER

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and their source documents.

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