

ELECTRONIC TUBE REFERENCE

3C37

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Microwave coaxial triode for pulsed oscillator service to approximately 1150 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 2.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.008 S
AMPLIFICATION FACTOR	23
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM PLATE DISSIPATION	150 W
MAXIMUM GRID DISSIPATION	25 W
Values promoted only where clearly published for this section in the approved source.	

Microwave coaxial triode for pulsed oscillator service to about 1150 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 National Union

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

1938 NATIONAL UNION

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
resonant cavity circuits will deliver	10 kw	Published source value; see source line context.
high ae	1150 megacycles	Published source value; see source line context.
Heater Voltage	6.3 volts	Published source value; see source line context.
Grid Voltage	1000 volts	Published source value; see source line context.
Anode Voltage (Instantaneous)	5000 volts	Published source value; see source line context.
Anode Dissipation	150 watts	Published source value; see source line context.
Grid Dissipation (Approx.)	25 watts	Published source value; see source line context.
Voltage	6.3 volts	Published source value; see source line context.
Ib =	70 umhos	Published source value; see source line context.
Anode Dissipation	150 watts	Published source value; see source line context.
Length	3 inches	Published source value; see source line context.
Diameter	1 inches	Published source value; see source line context.
Frequenc	1150 megacycles	Published source value; see source line context.
Anode Vo{tage (Instantcneous)	4500 volts	Published source value; see source line context.
Power. Output	10 KW	Published source value; see source line context.
Plate Radiator	4 ft	Published source value; see source line context.
Grid Radiator	1 ft	Published source value; see source line context.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current	2.5 amperes	Published source value; see source line context.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	3.5 uuf	Published source value; see source line context.
Grid to Cathode	4.25 uuf	Published source value; see source line context.
Plate to Cathode	0.6 uuf	Published source value; see source line context.
Grid Resistance	100 ohms	Published source value; see source line context.

TUBE TINKER

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