

ELECTRONIC TUBE REFERENCE

3C27B

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	0.0075 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
suitable resonant cavity circuits will deliver	10 kw	Published source value; see source line context.
at	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 {Instuntaneous}	5000 Volts	Published source value; see source line context.
Anode Dissipation	150 Watts	Published source value; see source line context.
Voltage	6.3 Volts	Published source value; see source line context.
Length	3 inches	Published source value; see source line context.
Freqnenci	1140 megacycles	Published source value; see source line context.
Anode Voltage (Instantaneous)	5000 Volts	Published source value; see source line context.
Peak Power Output	8 Kw	Published source value; see source line context.
late Badiator	4 ft	Published source value; see source line context.
Grid Radiator	1 ft	Published source value; see source line context.
TERMINATE IN	3 IN	Published source value; see source line context.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current	2.5 Amps	Published source value; see source line context.
Transconductance (Eb =	700 umhos	Published source value; see source line context.
Cric to Plate	3.5 uuf	Published source value; see source line context.
Grid to Cathode	4 uuf	Published source value; see source line context.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to Plate	1.45 μf	Published source value; see source line context.