



ELECTRONIC TUBE REFERENCE

4033AF

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Special-test version of the indirectly heated 4033 power triode selected for demanding aircraft-radio service. It retains the parent type's low plate resistance, 25 W plate dissipation, and 600 V capability while emphasizing aviation equipment use.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	6 V / 1.4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	1670 Ω
TRANSCONDUCTANCE	0.009 S
AMPLIFICATION FACTOR	15
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	170 mA
Published ratings/characteristics promoted; remaining useful source values represented as parameters.	

Indirectly heated oxide-cathode triode with published Class A and Class B audio-frequency operation plus radio-frequency operating conditions. The 4033-AF is the aircraft-radio special-test version.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Standard Valves

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

1937 STANDARD VALVES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode capacitance	8 pF	—
Anode-filament capacitance	2.7 pF	—
Grid-filament capacitance	11.9 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct anode current	170 mA	—
Maximum direct grid current	30 mA	—
Maximum frequency at full ratings	2 MHz	—
Anode voltage	400 V	ClassA;AF
Anode current	50 mA	ClassA;AF
Undistorted output	4 W	ClassA;AF
Maximum output	50 W	ClassB;AF;TwoTubes

SOURCE OPERATING CONDITIONS

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6 V	—
Heater/filament current	1.4 A	—
Plate resistance	1670 ohm	—
Transconductance	0.009 A/V	—
Amplification factor	15	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct anode voltage	600 V	—
Maximum anode dissipation	25 W	—
Maximum cathode/anode current	170 mA	—