



ELECTRONIC TUBE REFERENCE

HY51A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Power transmitting triode intended for RF amplification, oscillation, or related professional service. Manufacturer documentation emphasizes radio-frequency operation, substantial plate loading, and transmitter or industrial applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	7.5 V / 3.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	65 W
MAXIMUM CATHODE CURRENT	155 mA
Promoted ratings/characteristics from HY51A.pdf.	

2 - 38 HTRONIC Engineering Bulletin 51 - 1 Type HY51A-HY51B PHYSICAL DATA Plate Processed Graphite Grid Molybdenum-Nickel Filament Thoriated Tungsten Insulation Processed Lava Base 4 Pin UX Iso. Plate Lead Large Metal Cap Max., Overall Length 6 9/16" Max, Diameter 2 7/16" Bulb ST-19 Net Weight 3 1/4 oz. INTERELECTRODE CAPACITANCE Grid to Plate 7.5 uuf Grid to Filament 6.0 uuf Plate to Filament 2.0 uuf ELECTRICAL DATA HY51A HY51B Filament Voltage 7.5 Volts 10.0 Volts Filament Current 3.5 Amperes 2.25 Amperes D.C. Plate Voltage 1000. Volts Max. Plate Dissipation 65. Watts Max.

Max., Plate Current 155. ma. Max. Grid Current 25, ma. Average Amp. Factor 25 Mutual Conductance
6500 unthos BASE PIN



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1944 Hytron

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

1944 HYTRON

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament current	3.5 A	Published nominal value

TUBE TINKER

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