



ELECTRONIC TUBE REFERENCE

3AI42A

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Telephone repeater triode for professional communications amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	4.5 V / 1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	60000 Ω
TRANSCONDUCTANCE	0.0005 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	190 V
MAXIMUM CATHODE CURRENT	1.5 mA

High-mu directly heated repeater triode; 3AI42AY is the special-limits tested version.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Standard Valves

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

1947 STANDARD VALVES

Section 1 · Triode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridToAnodeCapacitance	7.6 pF	—
GridToCathodeOrFilamentCapacitance	5.5 pF	—
AnodeToCathodeOrFilamentCapacitance	5 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	130 V	GridBias-1.5V
Grid Bias	-1.5 V	—
Typical Plate Current	0.58 mA	PlateVoltage130V

TUBE TINKER

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and their source documents.

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