ELECTRONIC TUBE REFERENCE

4102E

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Directly heated Standard Valves 4102-series triode; variants differ chiefly in filament treatment and grid-to-anode insulation rather than documented application.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	4
NOMINAL HEATER	2 V / 970 mA	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

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

Published ratings and characteristics promoted where directly established by the datasheet.

Directly heated triode. 4102-D, -E, -G valves have similar characteristics. 4102-E valve has a filament designed to reduce sputter noise. 4102-G valve is similar to 4102-E valve but has the anode lead brought out through the stem to increase grid—anode ins

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
Mutual conductance	**500 µS**	Published characteristic; normalized from mA/V

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode capacity	**5.6 pF**	Published interelectrode capacitance
Grid-filament capacity	**3.8 pF**	Published interelectrode capacitance
Maximum direct anode current	**1.5 A**	Maximum safe operating rating

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