

ELECTRONIC TUBE REFERENCE

3J170E

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Air-blast-cooled high-power triode for transmitting and RF power service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 22 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	3300 Ω
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	6000 V
MAXIMUM PLATE DISSIPATION	3500 W
MAXIMUM CATHODE CURRENT	1.25 A
Values transcribed from the approved datasheet; additional published data retained as parameters.	

Air-blast-cooled power triode.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to anode	6 pF	Published direct interelectrode capacitance
Grid to filament	9.5 pF	Published direct interelectrode capacitance
Heater/filament nominal current	22 A	Nominal published value

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
Grid-anode capacitance	6 pF	—
Grid-cathode/filament capacitance	9.5 pF	—
Anode-cathode/filament capacitance	1.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency for published rating	50 MHz	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Air blast	—