ELECTRONIC TUBE REFERENCE

3J221E

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Air-blast-cooled very-high-power RF triode for large transmitting equipment.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	22 V / 70 A	**PARALLEL HEATER**	— / —
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode	
PLATE RESISTANCE	2900 Ω
AMPLIFICATION FACTOR	26
MAXIMUM PLATE VOLTAGE	17500 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM CATHODE CURRENT	2.5 A

Values transcribed from the approved datasheet; additional published data retained as parameters.

Air-blast-cooled high-power RF triode.

SOURCE OPERATING CONDITIONS

1946 Standard Telephone and Cables

SOURCE PDF

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	26 pF	Published direct interelectrode capacitance
Grid to filament	1.3 pF	Published direct interelectrode capacitance
Anode to filament	20 pF	Published direct interelectrode capacitance
Heater/filament nominal current	70 A	Nominal published value

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1947 Standard Valves

SOURCE PDF

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	26 pF	—
Grid-cathode/filament capacitance	1.3 pF	—
Anode-cathode/filament capacitance	20 pF	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum frequency for published rating	**22 MHz**	—
Cooling method	**Air blast**	—

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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