ELECTRONIC TUBE REFERENCE

RD75YH

Power - Triode (over 1000V 100W) 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, useful power output, and transmitter or industrial applications.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	19 V / 130 A	**PARALLEL HEATER**	— / —
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode	
PLATE RESISTANCE	4150 Ω
AMPLIFICATION FACTOR	48
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	75000 W
MAXIMUM GRID DISSIPATION	3000 W

Published characteristic ranges are preserved in parameters when no single scalar is printed.

Directly heated thoriated-tungsten 75 kW transmitting triode for RF power amplifier or oscillator service up to 3 MHz; water-cooled anode with forced-air auxiliary cooling.

SOURCE OPERATING CONDITIONS

195X Tesla

SOURCE PDF

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

195X TESLA

Section 1 · Triode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-cathode capacitance	**65 pF**	Published interelectrode capacitance
Plate-to-cathode capacitance	**7 pF**	Published interelectrode capacitance
Plate-to-grid capacitance	**45 pF**	Published interelectrode capacitance

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	**3 MHz**	Published maximum/rated frequency
Heater data	**19 V; 125-135 A**	Published heater voltage/current range or limit

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor range	**44-52**	Published range
Plate resistance range	**3.8-4.5 kOhm**	Published range

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1966 Tesla Tubes

SOURCE PDF

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

1966 TESLA TUBES

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater voltage	**19 V**	—
Heater current	**125 A–135 A**	—
Maximum plate voltage	**20000 V**	—
Maximum plate dissipation	**75000 W**	—
Maximum control-grid dissipation	**3000 W**	—
Maximum frequency	**3 MHz**	—
Maximum plate voltage	**17000 V**	Oscillator; f < 3 MHz

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid-cathode capacitance	**65 pF**	—
Anode-cathode capacitance	**7 pF**	—
Anode-grid capacitance	**45 pF**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Amplification factor	**44–52**	Published range
Plate resistance	**3800–4500 ohm**	Published range

Tube Tinker

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