



ELECTRONIC TUBE REFERENCE

F862A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled three-electrode power tube for RF amplification, oscillation, and Class B modulation. Approximately 100 kW plate dissipation and 20 kV capability provide enormous RF or audio-modulator power for major transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	33 V / 207 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	45
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	100000 W
MAXIMUM CATHODE CURRENT	10 A
Cooling: Water and Forced Air	

Three-electrode power tube for radio-frequency amplifier, oscillator, or Class B modulator service. The water-cooled anode is capable of 100 kW dissipation.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	45	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	20000 V	—
Maximum plate dissipation	100000 W	—
Peak cathode current	7.5 A	—
Maximum/full-ratings frequency	1.6 MHz	—
Maximum RF plate voltage	20000 V	—
Maximum RF plate dissipation	75000 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	64 pF	—
Grid-filament capacitance	56 pF	—
Plate-filament capacitance	4.7 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Water	—

1962 ITT Industrial and Transmitting Tubes

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1962 ITT INDUSTRIAL AND TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	64 pF	—
GridFilamentCapacitance	56 pF	—
PlateFilamentCapacitance	4.7 pF	—
FilamentStartingCurrent	400 A	—
FilamentColdResistance	0.014 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Grid Voltage	-3000 V	ClassC
Maximum DC Plate Current	10 A	ClassC
Maximum DC Grid Current	1 A	ClassC
Maximum Plate Input	200 kW	ClassC
Typical Power Output	100 kW	ClassC

TUBE TINKER

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