



ELECTRONIC TUBE REFERENCE

F880

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power water-cooled triode for RF amplification, oscillation, and Class B modulation. Approximately 20 kW plate dissipation and 10.5 kV capability support substantial transmitter power, with reduced-rating operation extending into VHF.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 320 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	10500 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM CATHODE CURRENT	6 A
Cooling: Water and Forced Air	

Three-electrode high-power tube for radio-frequency amplifier, oscillator, or Class B modulator service. The water-cooled anode dissipates 20 kW, with reduced-rating operation specified to 100 MHz.



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	20	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	10500 V	—
Maximum plate dissipation	20000 W	—
Peak cathode current	6 A	—
Maximum/full-ratings frequency	25 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	24 pF	—
Grid-filament capacitance	35 pF	—
Plate-filament capacitance	2 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Water	—



1962 ITT Industrial and Transmitting Tubes

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

1962 ITT INDUSTRIAL AND TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	24 pF	—
GridFilamentCapacitance	35 pF	—
PlateFilamentCapacitance	2 pF	—
FilamentStartingCurrent	480 A	—
FilamentColdResistance	0.003 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Grid Voltage	-1600 V	ClassC
Maximum DC Plate Current	6 A	ClassC
Maximum DC Grid Current	1 A	ClassC
Maximum Plate Input	67.5 kW	ClassC
Typical Power Output	40 kW	ClassC