



ELECTRONIC TUBE REFERENCE

F134

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Federal very-high-power water-cooled triode for RF amplification, oscillation, and Class B modulation. Approximately 150 kW plate dissipation and 20 kV capability place it among extremely large broadcast, communications, and industrial power tubes.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	25 V / 650 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	21
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	150000 W
MAXIMUM GRID DISSIPATION	4000 W
MAXIMUM CATHODE CURRENT	24 A
<i>Highest applicable published maximum ratings promoted; service-specific operating points preserved as parameters.</i>	

Federal F-134 very-high-power water-cooled triode for RF amplifier, oscillator and Class B modulator service; 150 kW anode 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	21	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	20000 V	—
Maximum plate dissipation	150000 W	—
Maximum cathode/plate current	24 A	—
Maximum frequency for full ratings	22 MHz	—
Typical RF plate voltage	18000 V	—
Typical RF plate current	9.6 A	—
Typical RF driving power	1.2 kW	—
Typical RF output power	108 kW	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	105 pF	—
Grid-filament capacitance	140 pF	—
Plate-filament capacitance	4 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Water	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FilamentStartingCurrent	1000 A	—
Peak Cathode Current	120 A	—
AnodeCoolingMethod	Water	—
MaximumOperatingFrequency	22 MHz	—
Maximum Anode Dissipation	150000 W	Absolute maximum / applicable service

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	105 pF	—
PlateFilamentCapacitance	4 pF	—

TUBE TINKER

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