



ELECTRONIC TUBE REFERENCE

F129B

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Federal water-cooled power triode for RF amplification, oscillation, and Class B modulation. Approximately 7.5 kW plate dissipation and 12 kV capability provide substantial transmitter and modulator power with liquid cooling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	18 V / 58 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	26
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM PLATE DISSIPATION	7500 W
MAXIMUM GRID DISSIPATION	1500 W
MAXIMUM CATHODE CURRENT	2.5 A
<i>Highest applicable published maximum ratings promoted; service-specific operating points preserved as parameters.</i>	

Federal F-129-B water-cooled power triode for RF power-amplifier, oscillator and Class B modulator service; 7.5 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	26	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	12000 V	—
Maximum plate dissipation	7500 W	—
Maximum cathode/plate current	2.5 A	—
Maximum frequency for full ratings	30 MHz	—
Typical RF plate voltage	10000 V	—
Typical RF output power	5.3 kW	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	12 pF	—
Grid-filament capacitance	12.7 pF	—
Plate-filament capacitance	2.2 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FilamentStartingCurrent	115 A	—
Peak Cathode Current	9.5 A	—
AnodeCoolingMethod	Water	—
MaximumOperatingFrequency	30 MHz	—
Maximum Anode Dissipation	7500 W	Absolute maximum / applicable service

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	12 pF	—
GridFilamentCapacitance	12.7 pF	—