

Federal water-cooled low-mu power triode engineered especially for Class AB audio-frequency modulator circuits. Its 40 kW plate dissipation and 15 kV rating support exceptionally powerful transmitter modulation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	27.2 V / 196.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	4.75
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	40000 W
MAXIMUM GRID DISSIPATION	3000 W
MAXIMUM CATHODE CURRENT	10 A
Highest applicable published maximum ratings promoted; service-specific operating points preserved as parameters.	

Federal F-125-A water-cooled low-mu power triode engineered especially for Class AB audio-frequency modulator circuits; 40 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.

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Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	4.75	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	15000 V	—
Maximum plate dissipation	40000 W	—
Maximum cathode/plate current	10 A	—
Maximum frequency for full ratings	0.02 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	65 pF	—
Grid-filament capacitance	90 pF	—
Plate-filament capacitance	12 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FilamentStartingCurrent	300 A	—
AnodeCoolingMethod	Water	—
MaximumOperatingFrequency	Audio-frequency use	—
Maximum Anode Dissipation	40000 W	Absolute maximum / applicable service

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	45 pF	—
GridFilamentCapacitance	56 pF	—
PlateFilamentCapacitance	20 pF	—