



ELECTRONIC TUBE REFERENCE

F128A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Federal radiation-cooled transmitting triode for modulator, RF amplifier, and oscillator service through about 30 MHz. It provides roughly 700 W plate dissipation and 4 kV capability for medium-power transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	11 V / 13 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	36
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM PLATE DISSIPATION	700 W
MAXIMUM GRID DISSIPATION	500 W
MAXIMUM CATHODE CURRENT	600 mA
<i>Highest applicable published maximum ratings promoted; service-specific operating points preserved as parameters.</i>	

Federal F-128-A radiation-cooled power triode for modulator, RF amplifier and oscillator service, rated through 30 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	36	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	4000 V	—
Maximum plate dissipation	600 W	—
Maximum cathode/plate current	600 mA	—
Maximum frequency for full ratings	30 MHz	—
Typical RF plate voltage	3000 V	—
Typical RF output power	1 kW	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	15.5 pF	—
Grid-filament capacitance	120 pF	—
Plate-filament capacitance	45 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Radiation	—

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
AnodeCoolingMethod	Radiation	—
MaximumOperatingFrequency	30 MHz	—
Maximum Anode Dissipation	700 W	Absolute maximum / applicable service

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	15.5 pF	—
GridFilamentCapacitance	12 pF	—
PlateFilamentCapacitance	4.5 pF	—