ELECTRONIC TUBE REFERENCE

F8387

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

ITT forced-air-cooled very-high-power transmitting triode for RF amplification, oscillation, and Class B modulation. Approximately 45 kW plate dissipation and 17 kV capability provide extreme transmitter power without liquid cooling.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	14.5 V / 350 A	**PARALLEL HEATER**	— / —
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode	
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	17000 V
MAXIMUM PLATE DISSIPATION	45000 W
High-power transmitting triode section.	

The ITT F8387 is a forced-air-cooled very-high-power transmitting triode for RF amplification, oscillation, and Class B modulation.

SOURCE OPERATING CONDITIONS

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	**14.5 V**	—
Filament Current	**350 A**	—
Minimum Filament Heating Time	**15 s**	—
Filament Cold Resistance	**0.006 ohm**	—
Amplification Factor	**20 ratio**	—
Grid-Plate Capacitance	**85 pF**	—
Grid-Filament Capacitance	**120 pF**	—
Plate-Filament Capacitance	**6 pF**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Starting Current	**1000 A**	—
Maximum Plate Dissipation	**45 kW**	—
Maximum DC Plate Voltage	**17000 V**	ClassB; AudioPowerAmplifier
Maximum Signal Power Output	**165 kW**	ClassB; PushPull; TwoTubes; AudioAmplifier
RF Power Output	**136 kW**	ClassC; PlateModulatedTelephony
RF Power Output	**150 kW**	ClassC; Telegraphy; CathodeDrive
RF Power Output	**135 kW**	ClassC; Telegraphy; GridDrive

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An independent reference for electronic tubes, vacuum tubes, and their source documents.

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