



ELECTRONIC TUBE REFERENCE

F5996

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled industrial oscillator triode for RF power generation, similar to F5680 but specifically not recommended for pulse operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	13 V / 36 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	6000 V
MAXIMUM PLATE DISSIPATION	2500 W
MAXIMUM CATHODE CURRENT	2.25 A
<i>Published maximum ratings and characteristics audited; remaining numeric data retained densely in parameter table.</i>	

Three-electrode industrial oscillator tube with forced-air-cooled anode; catalog data states F-5680 ratings apply except pulse operation is not recommended.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value	2.5 W	2.5 Kilowatts Plate Dissipation
p Filament Voltage	13 V	p Filament Voltage 13.0 Volts
p Filament Current	36 A	p Filament Current 36 Amperes
) Filament Starting Current	72 A	) Filament Starting Current 72 Amperes
p Filament Cold Resistance	40	p Filament Cold Resistance .040 Ohms
Grid-Plate	120	Grid-Plate 120 puf
Grid-Filament	150	Grid-Filament 150 uuf
Plate-Filament	1.8	Plate-Filament 1.8 upf
For Maximum Ratings, Typical Operating Condi- Air Temperature	45	For Maximum Ratings, Typical Operating Condi- Air Temperature 45° C
Sheet F	5680 W	Sheet F-5680. All values and ratings apply with Plate Dissipation
Federal's Type F [1]	5996	Federal's Type F-5996 has been designed to meet Temperature 150° C
Federal's Type F [2]	150	Federal's Type F-5996 has been designed to meet Temperature 150° C
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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
Maximum full-rating frequency	30 MHz	—
Cooling method	forced air	—

TUBE TINKER

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