



ELECTRONIC TUBE REFERENCE

5710

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Directly heated forced-air-cooled transmitting triode specifically for Class C pulsed RF amplifiers and oscillators to about 20 MHz. Published pulse operation reaches approximately 825 kW peak output at very low duty cycle.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 420 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0145 S
AMPLIFICATION FACTOR	95
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	5000 W
MAXIMUM CATHODE CURRENT	400 mA
Absolute pulse-service ratings; directly heated transmitting triode.	

The 5710 is a directly heated three-electrode transmitting tube for Class-C radio-frequency pulse amplifier and oscillator service up to 20 MHz, with a forced-air-cooled anode.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Grid Voltage Maximum	-1000 V	ClassC Pulse
Peak Grid Current	150 A	ClassC Pulse
Duty Maximum	0.004 ratio	ClassC Pulse
Pulse Width Maximum	100 us	ClassC Pulse

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Peak Power Output	825 kW	ClassC Pulse