

ELECTRONIC TUBE REFERENCE

7670

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Sealed stainless-steel ignitron for high-current short-duration pulse-welder service. Controlled mercury-discharge conduction switches enormous welding currents.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 IgnitronPowerSwitch	
MAXIMUM PLATE VOLTAGE	2500 V
PEAK INVERSE VOLTAGE	2500 V
Promoted only from clearly labeled printed ratings/characteristics; specialized and operating data retained in parameter rows.	

Sealed stainless-steel ignitron for high-current short-duration pulse-welder service.

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 · IgnitronPowerSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PULSE-WELDER SERVICE--2000 AMPERES PEAK	2000 AMPERES	Published datasheet; semantic line recovery
2000 amperes peak at voltages up to 2500 peak currents of this tube might cause in	2000 amperes	Published datasheet; semantic line recovery
.... 25 Volts Inlet Water Temperature, minimum., ... 10 C	25 Volts	Published datasheet; semantic line recovery
Arc Drop at 150 Amperes. . .	150 Amperes	Published datasheet; semantic line recovery
... .. 13 Volts Inlet Water Temperature, maximum. 30C	13 Volts	Published datasheet; semantic line recovery
Peak Forward Anode Voltage. 2500 Volts Peak Anode Current.	2500 Volts	Published datasheet; semantic line recovery
Peak Inverse Anode Voltage. 2500 Volts Average Anode Current. 10 Amperes	2500 Volts	Published datasheet; semantic line recovery
Peak Inverse Anode Voltage. 2500 Volts Average Anode Current. 10 Amperes	10 Amperes	Published datasheet; semantic line recovery
Initial Inverse Voltage*. 1250 Volts Averaging Time. 2 Seconds	1250 Volts	Published datasheet; semantic line recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Initial Inverse Voltage*. ... 1250 Volts Averaging Time. 2 Seconds	2 Seconds	Published datasheet; semantic line recovery
Anode Current Pulse Width.....1000 Microseconds	1000 Microseconds	Published datasheet; semantic line recovery
Ignitor Current Required to Fire. 30 Amperes Maximum Voltage	30 Amperes	Published datasheet; semantic line recovery
Current. 100 Microseconds Negative. 5 Volts	100 Microseconds	Published datasheet; semantic line recovery
Current. 100 Microseconds Negative. 5 Volts	5 Volts	Published datasheet; semantic line recovery

TUBE TINKER

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