



ELECTRONIC TUBE REFERENCE

6511

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Water-cooled mercury-pool ignitron for frequency-changer resistance-welding control and industrial power-rectifier service.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 IgnitronPowerSwitch	
MAXIMUM CATHODE CURRENT	2016 A
PEAK INVERSE VOLTAGE	1500 V
NOMINAL OUTPUT CURRENT	70 A
PEAK FORWARD CURRENT	1500 A
<i>Special-purpose data not represented by fixed promoted fields are preserved in TUBE_SECTION_PARAMETER. Ignitron/mercury-pool data semantically matching rectifier inverse-voltage and current fields were promoted; remaining grid, ignitor, auxiliary-anode, thermal, and fault ratings are parameters.</i>	

Water-cooled mercury-pool ignitron for frequency-changer resistance-welding control and power-rectifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · IgnitronPowerSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Cathode Current	2016 A	—
Maximum Average Anode Current	2016 A	—



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
The GL	6511 C	—
Ignitor Veltage Required to Fire	200 V	—
Net Welght	8.4 lb	—
Inlet Water Temperature maximum	30 C	—
At No Load	0.5 gal/min	—
Water Temperature Rise maximum	6 C	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pregsure Drop at	15 gal/min	—
Negatlive	5 V	—
Peak	100 A	—
Root Mean Square	10 A	—
Average	1 A	—
Maximum Averaging Time	5 s	—
Maximum Voltage	575 V	—

TUBE TINKER

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