



ELECTRONIC TUBE REFERENCE

5553A

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Sealed stainless-steel-jacketed water-cooled mercury-pool ignitron designed primarily for resistance-welding control and exceptionally high peak-current industrial 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

No fixed ratings recorded.

Ignitron ratings do not map cleanly to ordinary plate/screen promoted fields; complete service ratings are preserved as parameters.

The GL-5553-A is a sealed stainless-steel-jacketed, water-cooled mercury-pool ignitron designed primarily for resistance-welding-control service and very high peak currents.



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
Maximum Peak Anode Voltage Inverse	1500 V	RectifierService
Maximum Peak Anode Voltage Forward	1500 V	RectifierService
Maximum Peak Anode Current	4000 A	RectifierService
Resistance-Welding Maximum Demand	2400 kVA	WeldingControl
Maximum Average Current	355 A	WeldingControl
Maximum Peak Fault Current at 250 V	27000 A	WeldingControl
Water Flow Minimum	3 gal/min	—

TUBE TINKER

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