



ELECTRONIC TUBE REFERENCE

7151

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Water-cooled ignitron for high-power AC control service. Its controlled mercury-discharge conduction switches extremely large industrial currents.

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 electrical quantities do not map cleanly to ordinary vacuum-tube promoted plate/screen fields; source ratings preserved densely as parameters.

The GL-7151 is a sealed water-cooled stainless-steel-jacket ignitron for AC control service; two tubes in inverse-parallel can control multi-megavolt-ampere loads.

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
Voltage Range Minimum	250 V	—
Voltage Range Maximum	600 V	—
Maximum Demand	4800 kVA	—
Maximum Average Current	900 A	—
Maximum Peak Fault Current at 250 V	54000 A	—
Water Flow Minimum	10 gal/min	—